

<213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-A8

<400> 26820

aaaaaacata aaaaaaaaca aaaaaaaaaa gaaaaaataa ataataataa taaaaagaaa 60

aagggaacaa atataaataa taaaaaaaaa taaataaata aat 103

<210> 26821

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-C7

<400> 26821

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gccgccgcta gggttttggg gtgaggatcg ccgatgtcga cggctcccag gcgtcccttc 120

cgaggccgcy gcgccatgcc ctccgggcacc ggctacgtcc gccgcggccc cgccccaggc 180

tccgccgacg ccgccaagcc cctgcgcaag cccgtcttca ccaccgtcga ccagcttcgc 240

ccccagacac acgggtcacac tctcacagcc cgcgtcattg ccgtccgcac cgtcctcgac 300

aagccctcca cgcacctcgg ccgcacccgc gtcgccgagt gcctcgtcgg agacagcacc 360

ggcaccgtcc tcgtcaccgc ccgcaacgaa caggttgacc ttttgaagcc agatacaaca 420

gtgatcttcc gcaat 435

<210> 26822

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-043-Q1-K1-D6

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tggaggcctc tccttccgca atgtcctcaa catcctccag aatttgcagg gtgacgttgt 120

cgccgctgat gtggtggagt tcaaccacac gcgtgacacg gtagatggga tgacagccat 180

ggtcgccgcy aagctggttc gggagctcac tgctaagatc tccaagtgaac acggtcagga 240

ttgcaccact cttcttgaag caaagcgaaa ggggtgggttt tgatgtcccg gtggttattg 300
 gtcattggttt ctatgtatcg agcaccaa at tgttcgacat gtgacagggt tatatgttaa 360
 ttaggttgca ataacaccat aatggtttat ttaaaaaaaaa aaaaaattna aaa 413

<210> 26823
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-F12

<400> 26823

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 cgatccacac gtcaacacac aaaagactgt gaaaatagat tacggagatc actagaagct 120
 agcgggaagac tggttggtcat ataggcctta ctctcgctaa ttcacatatt cattgccctt 180
 atcacaatcc tacatcaact gcttacctta cactcaaaaa cctctttaat ctatgtaata 240
 acgaacagcc ttttctatac actctg 266

<210> 26824
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-H4

<400> 26824

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 ttcagttacg atgaccgct ttagttcagt tttttttttg ggggggttggt ttcgatcatt 120
 tggctgtagc gtgaatcgca tggacaacag actccaatta ctaagcaa at tttttgttc 180
 tgcataatatt ggaagaacct tgttcaggcc cccctttcga aatgaaatgc gtgaaatttt 240
 gttcttggtc aaacaagggc tctgcgtgct gcaccggat 279

<210> 26825
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-A7

<400> 26825

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gagctccccg acgagctcgc cggtaagcga gagctgctgt cccggacgct catggggatc 120
gacgaggcgg ccaccgaggc caagcgccag cttgatgagg cgacgacgga gaacaccatg 180
tccggcgacc acaggggtact gaccacgggc ctcatcgga cgttcgatga gatccaagac 240
gggcgcagcg ggtgcgcgc cagcgacttc cccaagtggc tgccggccac ccagcggagg 300
ctcctgcagc agaccagaa gcctaacacg gtggtcggcc aggacgggag c 351

<210> 26826

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-B10

<400> 26826

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gaacttattg catactatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaggac ggacaatata aaagaatcaa gctataagaa cacatgcatg 180
caacgtcata gctcttaata tagtggtacc taaattcaat ta 222

<210> 26827

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-B9

<400> 26827

acataataaa tgaataaggc ttttattgat tgcgtttctt cttttcatgc atgtaacaag 60
gccggaaccg gaaaccctag aacatattta tatacgtacg tatccaacag cagcacatac 120
atatacctgt aaggaaatta aaataattcg atatattccg tacccttgg aaagaccttt 180
ttgcatccat ctgcatgcat attataatct atattatatt gatgtagatc ccggccc 237

<210> 26828

<211> 83

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-C7

<400> 26828

aatataacaa aaaaattttt tatattcaat taatttatat taatcaaata atttaatttt 60

aatgtatcac attttcatac tta 83

<210> 26829
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-C8

<400> 26829

gtatcttcgt taaaaattat agcagtacaa atcatagcac attctgtagg tgtaggatac 60

agtaacacag cagcagaaca tcaaaccat ctctgccag gctctgagca aacgccaaag 120

cctccaacgt ggcacctacg taccgtaccc cagtcaccca cccacaccc tacctcgctc 180

gcagtcacag cttccgctgt acgcacacta ctgcgcggtg cacgcaccga cgacacggcg 240

gcgcagctta tgtatgagta agtataggga ctgccatac aggtagtcac cgacgcgtgc 300

caccccgctct agcgatcgaa cacagtcgac ggggaacgc 339

<210> 26830
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-045-Q1-K1-B6

<400> 26830

cctgatttct ctggttcctt gtgactatta ctaccgtttg tgcgagcacg caaatgtatg 60

ggttgcatta ttgctgatag catctgttcg ttggccagat gagtagagag ctgaaaaaat 120

gttaagaaca ccatagagag aagtccatcc gttctctctc aacttaagga gcaaacagca 180

acacttaatt tttttctgc tttactgttt attagtcgcg ttacatttgt gaacagttat 240

tgtaatatct ttttttaact ctgtattcgt agtgagatga aattcgtgtg tgggcaacaa 300

aaaatacaaa gataacgaac gaatgcatgc aacgacataa caataatata gagaaaact 359

<210> 26831
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-045-Q1-K1-D10

 <400> 26831

 cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgtgcg gacgcgtggt 60
 gtgatgggta ccaggatgag aaacggatta tgaagatatt agtttcattt tcatccatga 120
 atagaagcta aaagtggat catatctatg aatggtttca attgcttttc tgttacaacc 180
 acattatttg ctatatacga ttcacagtac ctgccagttg attccattgg ttgtttctgt 240
 aaaacaaata tcaatttgtc actagaatct gtgatgtttg tatgtaaaca ggtactctat 300
 tcatgtgaga catatatgtc ttttctatca caatgaagat gtcagaa 347

<210> 26832
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-045-Q1-K1-D11

 <400> 26832

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 ggggcgtggt catcacatgc aactactatg ccacggacct caagaagaag aacaagaaga 120
 agaagaagag caccaccaac tgaactcatg atttccagct agcttcttcc agttttgagc 180
 caagcatgga tcttgtacaa ttaattgatc tcagtatacc ttcaaaatta tcatcactac 240
 aatatataat tcgccaagc atagatatat aataatcaat cagttcatcc aaaataaaaa 300
 gcgctcacgg taaaa 315

<210> 26833
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-045-Q1-K1-G10

 <400> 26833

gcggaagtgc atcattctga catgcagctt caccacagga tcttgctcgt tgactgcata 60
 caaggtgacg ccaagcgggtt acgagtgggg acgcagcaac aaggacaacg gaagcaatcc 120
 acatggatac cttccaactc actacgagaa ggtccagatg cttctgagcg accgcttcct 180
 tggattctac atgggtccgg ataacgctcc ttggaacttc aacttcattg gagtgaagca 240
 cgacccacag atgaagtaca acatgaagct gggcatgccc cgggacttct atcacgagga 300
 ccacaagcca acacacttgc tgcagttcag caacattgaa gatgggtgagg ccgctgaaag 360
 cgatagggag gacacattca cgtatgcgcc tgtagaagac tgctctgttt taacggcagt 420
 gtgtgtagct gtaaactgac ttgacgggtg tcatctgttc gcctg 465

<210> 26834
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-045-Q1-K1-H4
 <400> 26834

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 gtccggcggg ccgagcgtgg tgcgcgtgtc ccagtgcgac gggccccact gcttcgccgt 120
 gacgcgcgcc gccgcggggc cgttctgcgc cgacgtgtc cgcgcgatgc atcacgagcc 180
 cgaggtgatg tacgaggtgc tgaagcagag gaccgacggc gccacggccg tcgtcctcgc 240
 ccgggccttc ggcgcaatgc cgtacctggt gtccgacccc gaggcgcgcg tgatgtccg 300
 cggcgagagc agcgactcgg agcggtc 327

<210> 26835
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-046-Q1-K1-C7
 <400> 26835

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 gtattcggta gacctatgat ttttcgtca gtgaagcata cgctgtggga ccaggtgcc 120

aataggccaa gactacagct ttcaagaact tgtatatttac aaactatcca tccatcttga 180
gtgaactcag cegtcttggt ctttgatcaa gctcagccag gacaacagtc tcctgctttt 240
tcctttcctt tgtgattgga tttgttgga ttgaaccaat cttgtcaaac gcgaatgtca 300
agagttcatc agggtcatat agatgatgtg tggttgtttg caaaccacg cgtncgtaga 360
tcgcga 366

<210> 26836
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-046-Q1-K1-D1

<400> 26836

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcc cacgcgtgcg 60
cggacgcgtg ggctagttct agatcgc 87

<210> 26837
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-046-Q1-K1-H8

<400> 26837

gcgagaggca agggacgtaa gaagtcttct aattctatat cattcagttc gggtcctga 60
acgtagcatc tccttgtaac catatataca tgcccgcgct atctatgagc attgcagaca 120
ttcggataac gaacgttctc atctcaaac tcttctcctg atcctggctc accggc 176

<210> 26838
<211> 219
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-047-Q1-K1-C12

<400> 26838

acgcaataat tttaactaat aaatacttgt tgcgatatat tcaccaatt ccactcacgc 60
gtcctgagca agcaacaaca atatgttccg gccgacaaac aaaacaaaa aaaaaacaca 120

ctgaacccaa taatcccact ccacaaaaac ttttatctca agccattcga tcgatcacag 180
 ncgtgtcgtt ctgcagacac cattaatacc cagaaccat 219

<210> 26839
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-047-Q1-K1-C4

<400> 26839

cttctggtgt ttttttacia tactaccttt cccatatttt ttttcatttc aaaaaatact 60
 accactttta acccatcatc ttcaatgtct cgtacaatcc cattcccaaa aagcattccc 120
 aacaaatgac tgcgatatca ttaataacca cttcgagtgc aacaaccac ataacaccaa 180
 cagtagcaaa ttcattatac ccttcaaata catccacacc caccacatgg ccttcctatc 240
 acattcatgg tcaacatcca ccaaagttga caaacgatct tcaaaatcca aacttacata 300

<210> 26840
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-047-Q1-K1-D4

<400> 26840

gagtgtttat ctctgttcgt ctctgttttg ttgttgccca tctgtgtttt tggttgaagg 60
 tcgctctgtg tcagttgtta gtgctgtgtt catcctctgc tccagcagac ccatgcatca 120
 accagcatgg actgcggatc gatgggtgct gttacccccg tcaggcttta ttctaagtta 180
 aatcctaagg aaaaaaatgg tgcttcttgg tgctgcaaaa tggttgtgct catttgaaaa 240
 actacatact ctctgtttga gtgcgaatca aggcaaaggc tgccagtttt tcaaacagct 300
 aatagcaaca gctgattaca acaaacttat gccataa 337

<210> 26841
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-A3

<400> 26841

atgaatcgca gatcgtggat taatagaaga ggtaaatttt ttttcaacta ttcacattaa 60
ttagtgctgt actaggatcg attcaccgtc tgtccgatcg aggcattccg ccaaaaaaaaa 120
aaactgagat a 131

<210> 26842

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-B2

<400> 26842

acggctcatg acaatggcga atttggcatg gaactggggtt aaccttgctg aaaaaatgga 60
actggggaaa caaaaatggt aataaatggt tctaaccaaa aaaaaaaaaa aaaaaaagaa 120
aaagaaagaa a 131

<210> 26843

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-G10

<400> 26843

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atcacaggct acgcggtgt taattaatct acatacgtct gccttcaatt actgaatctg 120
cacgttgata cccatgatat gtcagactgg tcaaagtgcg ttttcacaaa cgaagtcctg 180
atctgattta atcatagatt taatgccata ctgctgtatc tacttataca ctttgtctac 240
cactaaccac ctttgtttgc caatgctcta ctgctctcta tactacttat atactgtaac 300
gagaacatgc gt 312

<210> 26844

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-G11

<400> 26844

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aaggctagaa ctgtagagcc atgcatgctg ccggatcgga gagccgtggg ccatggaccg 120
atggcgctctc tctccccgc ttgttttcgg cctctcgtat tttggctgta gttcttgctc 180
tctcgttctc gtggaatgaa acacgtacgt atggattatc ctaccagcag atcgactaag 240
aaaa 244

<210> 26845

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-048-Q1-K1-G5

<400> 26845

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gggcctgctg ccgcccaccg cccggaatat atctatctcc ttgtaaacct acatcagacg 120
atgccccagc gcgtgccgct gatttgatgc aagtatgcgg ttttaatttg taaatcagag 180
tcgaccata ctacgcgaca ccagtatca attttcactt gtaatgaaaa attacacatg 240
tactcatttg ttgtacacaa acaaacaaaa aacgtagaa tataagagga tgtttctcaa 300
tcgatcgtta gacagaatga atactcagat tcctcnaaaa aaaaaaaaaa acagatcaa 359

<210> 26846

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-049-Q1-K1-B5

<400> 26846

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ataacacctc gagtaggagt tgaagtacat gatcattgat ggtatatata tagaggaagc 120
atgtctatct aataagtccc tcatccaaaa ttgttcttta tgtcatgtat atgtacgtgc 180
atatatatat atataaaaat acgtctcctt ttattaagtg tctttcgctt tcgcgcogaa 240

ctctgtaact tgagatatgg atcaaataga ttgtcatcac tgcatatcta ctatggggct 300
atggcttccc gttccagctc acatagaaaa gc 332

<210> 26847
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-049-Q1-K1-B8

<400> 26847

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aagggaagt gcaccgagca gaacggcatc acggcgccgg ccatgaaggt ctgccaggag 120
gagtgcgaca aggcgtacgt ggtgaaggcg gtcgaggtca ccaacgcctg cagcgtcacc 180
tgcgccaagg acaagaaccc gcgcctcatc gagaactgca agaggtcctg caccctact 240
ccttcttgaa gcgaaacccc ttgaaatgaa tgaaccatgc atgcatgcat gtatgcatgc 300
gccggtgtga cctggcgttc agctcaggcg ctgagcgagt ctatacgtac gtcgtcaccg 360
actggccacg catgcgataa ccatctgata tggacggaac tat 403

<210> 26848
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-049-Q1-K1-E7

<400> 26848

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gtgacagtgg cctcctccgt ccgtcggccc tccccagcac cgaggacacg tcccctcaca 120
ctcaacctgg atcgttgtac cgcaaccact ttgtgtttga gcgcctctag ctggccatgc 180
gcggcggtatt tgagcatcgc gggctcgcgg ccagaatata accacctgtt ctgcttgctc 240
atcgatgtgt ctaattcaaa agggaaagtc ctacaatgat tgggcatttc tttcaaaaaa 300
gaataaccacg gagaaaacgc catactgaac agacaagatc accgaagcac 350

<210> 26849
<211> 247
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-050-Q1-K1-A7

<400> 26849

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ctcagagagg gtaacatcct ctgcaataaa aatacttcac gagcttgtcc tgacaagttc 60
taactaatc cgacaggaag gtcgatttga agcatacaaa atgtcaacgt aaaaaatcca 120
atcacacgta ctcacacgta aaccgaaaat gaacacctca gaacgtctct gcatcacgaa 180
tggcattgtg ttattcctcc tcatcgcaact atcccatcac cacaccatgc ttgtcatgat 240
ctagcta 247

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<210> 26850

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-050-Q1-K1-D7

<400> 26850

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
ttaaaaaaaaa aaaaacattt ttttttattt aatcagaccc attttttttt ttaaaaaaaaa 180
aaaaaaaaaa attttttaaaa aacaaaaaaaa aaaaattttt ttttttttaa atcctaataaaa 240
aaaactaaaa aaaaaaaatt ttttttattt gtacacttat ttttaaaaaa aaaaatccct 300
tgtaaaaaaac cttaaaaagt tttttttaga aaagtgttta tatttccttt gat 353

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<210> 26851

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-050-Q1-K1-G3

<400> 26851

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tagcaaaaac caccatccgt cgtcgccaac cgtagcaaga acatcaccac cgcccagcaa 120
taatggcgca gagcatgagg attgtggcgc tggccctggt ggcctgctg gtgggtggcgg 180

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cgggcgcgcc cgtggccacc gcgtacggct gctacgacga ctgctacgag cgctgcgcca 240
acggcaagaa agaccccgnc tgcaccaaga tgtgcaacca ggcgtgc 287

<210> 26852
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-D11

<400> 26852

aaaaaaaaata aaataaaaaa aaaaaataaa aaaataataa aataaatata aaaaaggag 60
gaaaaaatat aataaaaaa aaaaaaaaaa aaaataaat a 101

<210> 26853
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-E6

<400> 26853

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tatattgggt ggtgtctttt tttatgtgtc tttcttattt actctttctt gctaccaac 120
agctgacctt tacaacacac gaaccaaata caccggcccc cgcattacaa cgactagacg 180
cgggaaaacc gtggcgaaac ccaaattaat cgcctagcag gacataaacc tgtaaacagg 240
tgaaagcaat accaacacga ccgaaccgat cgaccttccc aacagctgtt caacatcaat 300
ggaaaaaggc 310

<210> 26854
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-G8

<400> 26854

aaaaaaaaa ccccccaat ttaaacaca ccggtgcccc cacaaaaaa aacaaaaatt 60
aaggccaat tgttttctca aggaaagaaa aaccggtcct gcggaacttt ggggg 115

<210> 26855
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-B3

<400> 26855

ttattttttt ttttatcttt ttttttttgg gctcgttttt ttatttttta tagcggataa 60
 ccatctattg gcccatatat caattttcac aaaaaatatac attaccaaag cgaaacaaaa 120
 aataaacatc taaactgaaa catgaaacac attcactgac ataaacctga ctgtaaaaaa 180
 aca 183

<210> 26856
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-B7

<400> 26856

tgagatttaa tatcgagttg actggtggat taaaaaagaa aaaaaataaa aaaaagaaag 60
 ggaaaaag 68

<210> 26857
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-C9

<400> 26857

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 aataagcccc ttctcctect cgccctggcg tccgcgctcc ttggtgcggc gccggccgcc 120
 gcgaacgcgc ccggcggggc gttcagcaac tgggtggcga tgaaccagca gagctacgcg 180
 ctgtacgcgc agaagtcctg cggggacggg ggcaaggagc ccctggacaa gaagctgtcg 240
 gaggcggaga agaagaaggt cacgtacgtg gtggacccca gcggcaaggg cgactacacc 300
 aacatcaccg cggcgctgga ggatatcccg gtgagcaaca ccaagcgctg gatcctggac 360

ctcaagcccg gcgctcagtt ccgcgagaag ctgttcctga acatcagcaa gccgttcac 420
acgttcgagg 430

<210> 26858
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-E12

<400> 26858

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gctgcgagca tgggttctagt gaagtacagg tggccctgag tgatatgttc agcacttggg 120
ttggcccact cgttctccag tctgctgat gctgaacatc atgttatata tagtagtata 180
catcccatg tgttctctct ttctccatt atgttatgtt aatcttttag tcgctgggag 240
ttcatattgt tgtgctgaac tgatcatgca gatcaaattt tcgttgacgt tattttcttg 300
ttcgtatcgg gaggagtgtg tgtcactata gagaactgaa ttatgtacgg tagtttaaaa 360
aaaaaaacac ttaga 375

<210> 26859
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-G1

<400> 26859

tgcgccacgc gttcgatgcg gagattgaac aggagcatca tccagcaggg ctgagaccat 60
gttcgctatg ttgtcctctt tgcactgctg tgcttctcta ttgtctacct cttgtcaaag 120
ttctctagaa gatagttccg tctttggtgg gcaaacttag gatccatga cttggatgta 180
atctaaagaa agggaaaaac tatcgtactt ctgcctggcc ttgtatgctc agtcttttcg 240
tcgaaaatcg aatcacacta gaaataccct tcaaagattt atgctaactg catccactga 300
tccctatgat tggaactgtt gggattgaat tttttctacc gaataaaaag ctactacgac 360
tgttacactc a 371

<210> 26860
 <211> 155
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-052-Q1-K1-G7

 <400> 26860

 ttatctcttt ttttttttct tttatgttgg gttttttctt ttcttcattc tttataaaac 60
 gcaagggggc tccttagagc atccaatttt acatacccat gcattccaag tccaagctct 120
 tctatagtat cacctaaatc ctattaactg ccccc 155

<210> 26861
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-052-Q1-K1-H12

 <400> 26861

 tccagtgata tcaaagatgg atgtacgcgt atggaaatac gcgatgaacc gaggtctggg 60
 gattatttgc atgcacgact aatcatcact ggcaccaccg aaacatctat ctggg 115

<210> 26862
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-053-Q1-K1-A7

 <400> 26862

 cccacgcgtc cgcccacgcg tccgtttttt tctctcaaaa aaaaacgtca ggtaacgata 60
 gggggactaa aaaaaataag gacaacaaca aaat 94

<210> 26863
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-053-Q1-K1-B4

 <400> 26863

 taattgtact aatcaaattc ttgttgggat atattcctcc aattcccctc ctctcccaa 60

cgaggcaaca acaatctggt ccggccgccca aacaaaacca aaaaaaaaaac aactgaacc 120
caataatccg atccacaga aactttttctc tcgggtccgtt cgatcgatcg ctgccgtgtc 180
gtttgccaga caccatcagc acccaaaacc atggcctgca acctgggtca gtgcgccacc 240
gtcgcgcggg cgaccgtcgc gccccgcacc cctcgccctg ctgcgtccgc gtacgtctcc 300
ttctccgcga ggaagccggc gggcggcagc ctgcagctgc agcggcaggc gtgctgcgag 360
ccgtcgggtgg cgccgtcgcg ggcggtgttc g 391

<210> 26864
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-053-Q1-K1-D10

<400> 26864
aaaaaaaaaa aaacaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaagga 60
agggaaaaaa attaaaaaaa 80

<210> 26865
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-053-Q1-K1-G7

<400> 26865
gcgagatgaa aggcaaccgt ggtcatgcat ctctgttcca tacttccatt ccacagattg 60
gttccatact gtgcattacc acttatacag attataaaact actacatggg actagaatca 120
acaagaccag atagcccctt gtaagccata ctcatattct gataaagatc cacattaaac 180
tgctagtatg aagcaatgag gtgagtaact tacccttgtc ctatgcttca atctcaaagg 240
ttctccatct ggatattgct cttgagtggc acgtactccc caaggtaccc tccaagggtgc 300
tcatacaacg cagtccggtc aatctgctgg ttgtggaagg ccttgcaagc gtagtagaag 360
acgtcttgca cgagcagttc cagcaaattg acacagacta gaacgcac 408

<210> 26866
<211> 198

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-054-Q1-K1-A9

 <400> 26866

 gttccaccat tatcctgttt acaaaatact actgctccgt atatacggag aaactacatt 60
 taacgtaatc gaaaacaaac agctattaat tagcaccatc tccatacctg cataccacct 120
 tggcctaaac gacctgatca taacatttaa ttaattaatt aagccaaaga cctacaagcc 180
 ctaggatoga tgcctccc 198

<210> 26867
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-054-Q1-K1-B10

 <400> 26867

 acggtttgtg taatccgacc gggctgtgtt gggctcattg gtattgttct ccccttttgt 60
 aatcggcggg gtgctttgtg taatcctacg gccattttg agccattgat ctaatgaaat 120
 caggtggtgt caaaaaacaa aaaaaagata ataaaaacaa aaaaaaaac aagataatat 180
 aataaaaaat aaaagaaaaa aaagaaaa 208

<210> 26868
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-054-Q1-K1-D3

 <400> 26868

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 agcgcggctc gatcagaagg ggccggacta acatactctt gcatccaaaa atatatctac 120
 atctatagtg taccctaaat caaat 145

<210> 26869
 <211> 121
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-E6

<400> 26869

tcgcccacgc gtccgcccac gcgtcctaaa aataaaataa aaaaaaaaaa aaaaaaatg 60
gaaagtaaaa attaaaaaaaa aataaaaaaaaa aatattttaa aaataaaaaa aaaaaaata 120
a 121

<210> 26870

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-F11

<400> 26870

cgattcacga tccttgata ttgcgatta ttgaatcctt gggcatacca taccggcagt 60
gggaggcatc ccaaattcaa aaggaggatca tctggtaact gatgttaca cttttctgta 120
tgggaatgct gtgaacaatg tggcgcagag ttccacacac taactaacct tacattatgc 180
tagacagaga tcctacttcc tttgcttcag ttctcgaat ctatgcagat gcagacactc 240
gcagagagag ctcatcaact gg 262

<210> 26871

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-H7

<400> 26871

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gatttcggtg attctgaatg ttatgttggg tctccctatg tacttcaaaa aacatagttt 120
tgatgctaaa gttgcctagg aatttggtac ggtgaagtgg cagtggacgt gaacaatggt 180
aagttttgag catttaaatt aaacctttgc cctgataacg ttgcgagtta tttaattttct 240
tgctttgttc ggggcttgtc agtctgttaa actgtttatt ttatttggca tagcctgaaa 300
gagtgaaatc aacagttgtc gtaattgtaa ctgggtttttc ttcttgccat gtcataataat 360
acagtatggt tcaataaaat ctcttagg 388

<210> 26872
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-055-Q1-K1-B5

 <400> 26872

gaaggtagcg tatagagaat gggtacacta ttacgcaggt acatttgtga caccctagcc 60
 cccttagaca aaagaacaga agaagcacct ccgagagaac gttcagggac gctaccaaga 120
 cgcctcaaca ataggcaggc aatcatgtat ggtactacga caccaagacg acatactcca 180
 gctaaggtagc ttgactcggc gaaaccaact gaaacagcgg caccacggcg cctgtcgccc 240
 tactattgca gctatcctac aacatgtctg atatacgcaa aagactcggg ttttttctcc 300
 ccaccagca tccttcaatt ggtcatgctc aagctcaatt agcttcagcg tccttctctc 360
 gacctgacct gatctatgcc gatttctg 388

<210> 26873
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-055-Q1-K1-G11

 <400> 26873

cccacgcgtc cgcccacgcg ttcaggacga ccacgagtag tactagctct cgggcagcat 60
 cggagctgga tccgtctctg cacaggttga ggacatcaca gacactcaca acagacatgt 120
 agtgaactca tatttgcatt agtgtacatg cctcagagtg cagcacaccg gctaaccttg 180
 cccacatgca ttggccttga ttataacaca cgatagcgtg gatgtggaat tggacgatcc 240
 tgtgcatgaa tactactcag tgcaaaggat caaaagtgca tacaagagaa tgactgaacc 300
 acttccagat aggtctcaat ggccattagt ggaccgcccc tatgtggttg gtgcaccact 360
 tgacaagata ggtagcaca ggtacaactt gactg 395

<210> 26874
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-C12

<400> 26874

ccagcctgga tcctctccaa atcagagagt tcatggagat tcagtcagta aattacaatg 60
gtgataccta ccatttgata agtaaaaaact gcaaccattt ctgtgaggat atctgcaaaa 120
ggttgacagg aaatatttatt ccaaaatggg tgaatcgact tgctagaatg ggtgctgttt 180
gcaactgcat tctaccagag tccctcaaga tcaacgcggc cggtcatgac ccagcttctc 240
gagctgaaga tagcgagaga aaaatgctga caagtctctt cagttgcttc tgttcaatct 300
ctctatgcca aagacatttc tcaacatctt cgccgtctct gcgttcttc gcgaacggca 360
cttcttgga taccaagcaa tccaattcta cccgactgaa gaagagctta cagttgaggt 420
cctgtgtatc atatttaact catg 444

<210> 26875

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-D11

<400> 26875

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tgcaactcgtc cgtgcacgcg tcctcgcacg cgtacgagca tacctgcagt catttactcc 120
accaggacca gcgagttcaa cagcagacag atcgggacta ttatgacgag ccgcaggatg 180
gcatcatcgg ccgcactgtc ggtgctagcc ctagcgctag tggcggccac cgcacacac 240
gtagcggcgg caacgacgac gagagcggcg gagagcggcg aggcggccta tgccaagacg 300
atccaggacg acttctgctc aacgctgtgc gacggcaaga tggggaccga cctggtcgcg 360
tgctaggagt cctgcgtctt ctgccagcag tccaacctgg tgctgtacgg caggatccag 420
tgcaagggca agtgcaccga gca 443

<210> 26876

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-E11

<400> 26876

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tgtagatgt attattaaca tgcgagcag acaagactga ttaacattat gtaatgtaat 120
ctcaaagtgg tgtaaattga tggatcaagg tataggatcc cctggagtgt ccaaccggca 180
atccaaacca attccttttt tcgaattatc atgatgtaat tcccaaatgt ataaaattca 240
gttttttagtt tttccttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaataaaa 300
aataaaaaaa aagaaaaaaa aaataaaaaa gcttaataaa tatataaata taaaaaataa 360

<210> 26877

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D9

<400> 26877

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gacatcttat tggctcaggg caaggagtat gtcttcgttg ctaactcaga caacttgggt 120
gctatagtcg acatcaagat cctgaaccat ctgatcaata accagaatga atactgcatg 180
gaggttactc caaaaacatt ggctgatgtt aaaggcggta ctctcatctc ttacgaagga 240
agagttcagc ttttgagat tgcccaagta cctgatgagc atgtgaatga gtttaaataca 300
atcgagaagt ttaagatatt caacactaac aacttgtggg tgaaccttaa agctgtcaag 360
agactagtag aggctgaggc acttaagatg gaaattatct caaaccccaa ggaagttgat 420
ggtgtgaaag tccttcaact 440

<210> 26878

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-D12

<400> 26878

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gatctttaca ccttggttga tggctttgtc atccgcaacc catccagagc gaatccagct 120
aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tggtcggttc 180
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctggtga tgtctggttt 240
ggctctggaa ttacactcaa gggcaagggtg acaattatcg ccaagcctgg agtgaagttg 300
gagattccag atggagacgt acttgagaac aaggatgtca atggccctga ggatctttaa 360
gcaatgttta tcatcaccag ttttcccaag gacatgtcac aggaactgcc aagcctaate 420
actcctactg agctctatat tntgtaattt tcatgtgcat tccg 464

<210> 26879

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G12

<400> 26879

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tttaagatat tcaacactaa caacttgtgg gtgaacctta aagctgtcaa gagactagta 120
gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga tgggtgtgaaa 180
gtccttcaac ttgaaactgc agctgggtgca gctattcggt tctttgacaa agcgattgga 240
attaatgttc cccgctcaag atttctcccg gtgaaggcta catctgattt attgcttgtg 300
cagtctgac tttacacctt ggttgatggc tttgtcatcc gcaatccatc cagagcgaat 360
ccagctaacc ctctgattga gcttggacct gaggtaaga 400

<210> 26880

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A12

<400> 26880

ccgtcctttc ctttctgagg ctgcgcaacc ccgacaatgg ccgcaaccgc ggtgtctgtc 60
gacgagaagc tcgacaagct tcgcgccgag gtcgccaaac tcagccagat cagcgagaa 120
gagaaggccg ggttcatcag cctcgtgtca cgctacctca gtggggaggc ggagcagatc 180

gagtggagca agatccagac cccgaccgat gaggtagtgg tgccgtacga taccctcacg 240
 tcgcctcctg aagatctcga ggagacgaag aagctgctgg acaagctcgt tgtgctcaag 300
 ctcaacggag ggctcgggac gaccatgggc tgcaccggac ccaagtctg 349

<210> 26881

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-F4

<400> 26881

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 ttgtcatccg caacccatcc agagcgaatc cagctaacct ttcaattgag cttggacctg 120
 agttcaagaa ggttgccaat ttccttggtc ggttcaagtc catccccagc atagttgagc 180
 ttgacagctt gaaggtttct ggtgatgtct ggtttggctc tggaattaca ctcaagggca 240
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 agaacaagga tgtcaatggc cctgaggatc ttttaagcaat gtgtatcatc accagttgtc 360
 ccaaggacat gtcacatgaa ctgtcaagcc taatcactcc tactgagctc tatantttgt 420
 aatgttcatg tgcattccg 439

<210> 26882

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D2

<400> 26882

gtttaagata ttcaacacta acaacttgtg ggtgaacctt aaagctatca agagactcgt 60
 agaggctgag gcaacttaaga tggaaattat tccaaacccc aaggaagttg atggtgtgaa 120
 agtccttcaa ctcgaaaccg cagctgggtc agctattcgg ttcttcgaca aagcgattgg 180
 aattaatgtt ccccgctcaa ggtttctccc aatgaaggct acatctgac tgatgcttgt 240
 gcagtctgat ctttaca 257

<210> 26883
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G4

<400> 26883

ctcaagggca aggtgacaat tatcgccaag cctggagtga agttggagat tccagatgga 60
 gacgtacttg agaacaagga tgtcaatggc cctgaggatc ttttaagcaat gtttatcatc 120
 accagttttc ccaaggacat gtcacaggaa ctgccaagcc taatcactcc tactgagctc 180
 tatattttgt aattttcatg tgcattccga ttccgctgtg agggatcatgt gagcccgcta 240
 gagaataatt gtaatcttct ttgctgcgtc tgtacttctg tttttgtgcg ccaggacgta 300
 tatttttact gaaatgatac tccgtaatat attataatac ttgttttata ttatttttat 360
 tgtttttatt atattattat gtttttttta tgtttttata atttattttt tttttatatt 420
 atttttttat aattttttta ttt 443

<210> 26884
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F5

<400> 26884

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 tatttgccag tggcagtcca ttgaccctg tggagtaaga tgggaagggt tttgtacctg 120
 gacagtcgaa caacgcctac attttccttg gatttggcct cggctctgtt atctctggag 180
 ccatccgtgt ccacgaggac atgcttcttg ccgcctcgga agcactagct gctcaggcca 240
 cacaggagaa cttcgacaag ggatcaatct tcccgcctt caccaacatt agaaagatct 300
 ctgcgcgcat tgccgcagcc gtggctgcaa aagcttatga actcggtttg gcgacctgct 360
 tgcctcccc aaggacactg gtgaaatatg cacagagctg catgtacact cctgtctacc 420
 gtaactaccg gtagtgctgc tgggatcaat t 451

<210> 26885
 <211> 139

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-H12

 <400> 26885

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 gcatggtgga gctcttgtcc cgtattacct taatgaaaaa actgggtggg gtttggagat 120
 ctctgatttt aatacgcat 139

<210> 26886
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-B11

 <400> 26886

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 atgttagggc cttggtgggtt atcaatccag gaaatccgac tgggcagggtt cttgctgaag 120
 acaaccaata tgatatagtg aaattctgta aaaatgaggg ccttggttctt ctagctgatg 180
 aggtatatca agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg 240
 caagatccat gggatacggc gaggatgatc tccctctagt atcatttcag tctgtctcca 300
 aaggatacta tggagagtgt ggtaaaagag gaggttacat ggagattact ggcttcagtg 360
 ctccggttaag agagcagatc tacaaggtag cttcagtga cctgtgctcc aatatcactg 420
 gtcaaatacct tg 432

<210> 26887
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-F3

 <400> 26887

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 gttacgtctc accgatgaat aaaatgtatg tatcagactt gtctcgtttt tttgcccattc 120
 caagcagcaa attagccgct ggcacagcat gcggttaataa tcttgtcaca gtgctgtagt 180

tgggagcgtt tttcttggtta gaagtgtttc tggtttgttt g 221

<210> 26888
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B8

<400> 26888

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gaccaatgta cagcaaccca cctgttcattg gtgcaactgg tgtttctata atcctcagtg 120
atccagaatt gaagagtttg tggttaaaag aagtcaaggg tatggctgat cgtatcattg 180
gaatgcggaa ggcacttaag gaaaatcttg aaaagctagg ttcacctttg tcatgggatc 240
atatcactaa tcagattgga atgttctgct acagtgggat gacacctgaa caagttgacc 300
gtttaacaaa tgaataccac atttacctga cccgcaatgg gtggataagc atggctgggtg 360
ttacgacagg aaatgttggg tacctagcaa attcttttca tgagggttacc aaactcaatt 420
tagttatggg cctaccttct tt 442

<210> 26889
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F10

<400> 26889

ggcgaagtca ttgagtagtc tttcggattg gatcatttgt gctttaggac actgcaacgt 60
ttcacggctg cgacccttga acatgggatg caccctccaa tttcgccgaa accagaatgg 120
cgtgctttga tggatgagat ggctatcgtc gccacaaagg aataccggtc aatcgtattt 180
gaggaaccgc gctttgttga atatttccgc cttgcaacgc cagagatgga gtatggcagg 240
atgaacatcg gaagcaggcc atcgaaaaga aagccgagtg cgggcatcga gtcgctgccc 300
gcaatccctt ggatcttcgc ttggacgcag actcggttcc accttgccgt gtggctgggt 360
ttcggcgcgg cgttcaagca tgtcttggac aag 393

<210> 26890
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-C4

 <400> 26890

 gagcccgag cgcctctgt ccaatgagtt tatcgactag agtcagccgg cggatctggt 60
 gcagctgaac cagcagagcg agtacgctcc aggctggag gacaccctga tcctgaccat 120
 gaagggcatc gtcgtcggca tgcagaacac cggctaggcc aagaattatt gtgtgcagat 180
 aacctgtctt ccatgagacg gttgacgata tgtgtaggcc tgtgagcagt tagtacaccg 240
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<210> 26891
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-H10

 <400> 26891

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 ctgcgtgagt cctacatcac cactctgaac gtgtgccagg cctacaccct gaagcggata 180
 cgcgacccga gctttcaggt gagcccgag cctgccctgt ccaaggagtt caccgacgag 240
 agtcagccgg cggagctggt gcaactgaac cagcagagcg agtacgcttc aggctggag 300
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<210> 26892
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-C3

 <400> 26892

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ccgccaccgc cctcaccat gggcagcgcc gccgcctctc cgcagccgtc tgggaatctg 120
acgcaggacg agctcaagcg cgtggcgggc caccgcgcgg tggagtctgt ggagcccggc 180
atgacgctgg gcctgggcac gggttccacg gccgcgcacg cgctggaccg tctgggctac 240
ctactccgcg tgggctcgct gtccggg 267

<210> 26893
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A4

<400> 26893

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gcaaatgcca ttgtcgcagg ttctgcagtt tttggggctc cagactacgc tgaagctatc 180
aaaggaataa agaccagcca aagacctcta gctgtagccg cataaggagc tggacgtgta 240
atcatttact ctgtgcaagt ttaccagtga tgcgatctgt atagatgtgt gtcttgtcca 300
gccatacgta taccggagat gaaaagagac ggaagcagtg aagaaatata cttttttttt 360
cttctcattt ttcacgaaga 380

<210> 26894
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G5

<400> 26894

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ggaggggctcg gccggggccg gcaagtcggc gccgaacatg gggaggggccc gggtcgagct 180
caagcggatc gagaacaaga tcaaccgcca ggtcaccttc gccaaagcgc gcaacggcct 240
gctcaagaag gggttccagc tctcggtgct ctgcgacgcc gaagtcgcgc tcatcatctt 300
ctccaaccgc ggcaagctct acgagttctc cagcacgcag agcatgccaa aaacacttga 360

aaagtaccaa aaatgcagtt ttgcagggcc tgaaacagca ctccagaata gagagaatga 420
gcaactgaaa agtagccgca atgagtacct caaactgaa 459

<210> 26895
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E5

<400> 26895

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ggaagggtag cgtgcgcaag aagaagaagg cagtccacaa gactacaacc acagatgaca 120
aacggcttca aagcaccttg aaaagaatag gagtgaacag cattcctggt attgaagagg 180
tcaacatctt taaggatgat gttgttattc agtttgtaaa tcctaaagtg caagcgtcaa 240
ttggtgctaa tacatgggtg ggcagtggaa ctccac 276

<210> 26896
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D2

<400> 26896

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gccgctgccg tcatggcaag cagcaacgtc tcgaccgttt acatctctgt cattgatgac 120
gtcatctcca aggtccgca ggatttcac acctacggag tcggtgacgc cgtcctaaac 180
gagctccagg ctctagtggg agatgaaaat gctacactgc tgctcgatct ctgagaacat 240
agaccgaacc aaggttgctg acgcgtacgt cggaggcacc accggcacga caacggccgt 300
gcacgacctg aacgtgccgt acgaggccac atcttaggag tacgccaacc cgaccgctga 360
catgctgttt ccggcgaca 379

<210> 26897
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D6

<400> 26897

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agaatccgca tgctccgtta ttagatcctt tactatctgt gagattctac gaaagaactc 120
gtgaacaaca agcagcactt ggctttcttg ctgaaccacc aaaagaacaa cctggagagg 180
ctgtattgcc tgcttcagca gtggaatcca attctgatgg gttgcaaagt gtgccccatg 240
gctcagttgg agctgttgca ggctgcgtcg ctatagctca gggaaaccct gatgaagttg 300
ctgcagcatt gtgtagatat tcagcaccag aagaggttga tactttacca tcaacatgtg 360
gagcctgtgg aacaaaatgc gtcacacgtt tctttgctac aaaaatccca t 411

<210> 26898

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G7

<400> 26898

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cttctcaacc cgccggcaga gctcgagaag ctcaagcaca agaagaagcg cctcgtccag 180
tcccccaact ccttcttcat ggatgtcaag tgccagggat gcttcagcat aaccacggtt 240
ttcagccact cccagactgt tgttggtgct ccaggctgcc aaactgttct ctgccagccc 300
acgggaggaa aggcgaggct cacggaggga tgctctttcc gccggaaggg agactagagc 360
tgagtctgtt attagtactg gatcggttgt caatctccag tatgtggtct tcaagttttg 420
ctctgtgccc cagacgttag ggtcatg 447

<210> 26899

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H1

<400> 26899

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 gccagggctg tttcagcata accactgtgt tcagccactc ccagactgtg gttgtgtgcc 180
 caggctgcca aactgttctg tgccaaccta ccggtgggaa ggccagggct caccgagggg 240
 tgctccttcc gtcgcaaggc cgattaggtc ctgcttctct taacgtgaga agagataaat 300
 ttggtgtttt gcaactttct caggatatgt actcggtgag gattttgtta attattatgg 360
 ctgttagcgt ggcttgacia tgcttgtgta aacctgcact ttgtttgagc gtagtgacag 420
 ctaatatggt gcttgttggc ttttgctg 448

<210> 26900
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 26900

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 agtttgagga tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc 180
 atgccgactt catcatcacc agtaccttcc aagagatcgc cggaaacaag gacaccgtcg 240
 gccagtacga gtcacacatg gcgttcacaa tgcttggcct gtaccgcgtt gtccacggca 300
 ttgatgtgtt cgaccccaag ttcaacatcg tgtctcctgg cgcgacactg tccatctact 360
 tcccgtaac cgagtcgcac aagaggcttg acctcctttc acccgagaat gangagctcc 420
 tgtacagcca aaccgag 437

<210> 26901
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-E9

 <400> 26901

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 tgatccgggt gtcgctttta gtagtctgat ggactgttag tagtttgctg tgcgtcgggt 180
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 ctggatggga tgttgctcct tgaataataa tcgtagtggc cttggagccc ttttcctg 298

<210> 26902
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-C3
 <400> 26902

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 gcagcatcct agtgcttcac tttgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ggaatcaaat caaaaatatc aaaacttaaa aaaattaata 240
 agaaataaaa aaaatatact aatgattaac caaaataaaa acaaatatca atttattaaa 300
 aactcaaaca aggaaaaa 318

<210> 26903
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-H10
 <400> 26903

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 cggaggcgga gctggacctg ggcctgggtg ggcgcgccag ggtgttccac tacggctcca 180
 tctcgtcat ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg 240
 ccgcgggcgt gctctgctcc tacgacccca acgtgcgect cccgctctgg ccgtcgcccc 300
 acgccgcacg cgagggcatc ctcagcatct ggaaggaggc cgacttcacg aaggtcagcg 360

acgacgaggt ggccttcctc acgcgcggtg acgccaacga cgagaagaac gtgctgtccc 420
tgtgggtttga cgggctcaa 439

<210> 26904
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C9

<400> 26904

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gcacgcgagg gcatcctcag catctggaag gaggccgact tcatcaaggt cagcgacgac 180
gaggtggcct tcctcacgcg cggggactcc aacgacgaga agaacgtgct gtcctgtgg 240
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aaggacttca agggcagcgt gcccggttc aaggtcgaca ccgtcgacac caccggcgcc 360
ggcgacgcct tcgtc 375

<210> 26905
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A8

<400> 26905

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gcaggetcag gatctcatcg acgccgctag gtacgacgac ttggaggacg tagtcgccct 180
gttctccgct ggtgtctcgc tggactccac agattcgcaa ggccgcacag ctcttcacat 240
ggcttctgcc aatggtcacc ttgctgaggt ggaatacttg attcaaaatg gagcgaatgt 300
taatgccacc aacatggaga agaacacacc actccactgg gcatgcctta atggacgtat 360
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<210> 26906

<211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-H4

<400> 26906

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gacctcatcg ccaaggccaa ctagatggcc gcacgcccgc cgttcacca cgtcactgtc 180
cccctcgctg tcgacgtcct cggtttcggt tcattaggta gatcgagtct tagcgtccgt 240
ctctgcgcct ctacgctgag acggtttggt tgggttaatt aagttagctt tcgtggagat 300
ttcgccccgg ggcacaaat aaaatgttgg catgcgtggt gggatgctat cctttatttt 360
tattttattt tatttttttag cttggatcag ttgggggttt gaacattgct a 411
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<210> 26907
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B10

<400> 26907

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agcagacctt catcatgatc aagcccacg gcgtccagcg gcgcctgatc ggggacatca 180
tcagtgcgtt cgagaagaaa gggttctacc tcaaggggat gaagttcatg aacgtggaaa 240
ggtccttcgc tcatcagcac tacgtgacc ttccgacaa gcctttcttc cccgggttgg 300
tggagtacat catttccggc ccggtggtgg cgattgtgtg ggaaggg 347
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<210> 26908
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C3

<400> 26908

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 accttcatca tgatcaagcc cgacggcgtc cagcggggcc tgatcgggga catcatcagt 180
 cgcttcgaga agaaagggtt ctacctcaag ggtaagtgcg ttccattttg ttctcgaatt 240
 gattgctgga acacgtactc tgtttaaatt tcctagctat acgcatgaac ttctctgctg 300
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<210> 26909
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-032-Q1-K1-C5
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 gactcaaagg aacttgcttg gtgaagatct tgagtcatta ggcataaaag agctggagca 180
 cctggagaag cagctcgatt cgtccttgaa gcacataaga tctacaagga cacaacacat 240
 ggttgatcaa ctgacagaac ttcagaaaaa agaacaaatg ttttgtgaag caaataagt 300
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<210> 26910
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-010-Q1-K1-G12
 <400> 26910

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 caaaaatcct agagaagtac cagaccaact ctggaaagat actgtggggg gagaagcaca 180

agagccttag tgcagagatt gaccgtataa agaaagagaa cgacaccatg cagatcgagc 240
tcaggcacct gaaaggtgaa gatctaaact cgctgcaacc caaagacctg atcatgatcg 300
atgaggcact tgataatgga ctgacgaacc tgaatgagaa actgatgg 348

<210> 26911
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F7

<400> 26911

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tacccttgaa tctagcggcg ctttttgtt 88

<210> 26912
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C4

<400> 26912

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<210> 26913
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E10

<400> 26913

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cagcacatca ggacattgag caagtaaaag ctgatgctga gggcctggca aagaaactgg 180
aagcacttga agcttacaaa agaaaacttt tgggtgagag gttggaagaa tgctcctttg 240
aagaactgca cagtttgga gtgaaactcg aaaagagcct tcattgcac aggggaagaa 300

agactcagct gctggaggag caactccata agctgaagga gaaggagatg aatctgcgca 360
agagcaacga agatttacgt gaaaagtgca tgaagc 396

<210> 26914
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A5

<400> 26914

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ttctccaacc gcggcaagct atacgagttc tgtagcggac cgagcatcac gagaacactt 240
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gagttagtcc agaacagccg caatgagtac cttaaactga aagcaaagggt ggataattta 360
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g 421

<210> 26915
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C1

<400> 26915

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aaggagaacg agttagtcca gagcagtcgt aatgagtacc tcaagctgaa agcgaagggtg 360
gataatttac agaggactca gaggaatttg cttggtgaag atctgggggtc acttgggtgtc 420

aaagagcttg agcagcttga gaagcaactt gattca 456

<210> 26916
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D1

<400> 26916

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aaggagaacg agttagtcca gagcagtcgt aatgagtacc tcaagctgaa agcgaagggtg 360
gataatttac agaggactca gaggaatttg cttggtgaag atctggggtc acttgggtgc 420
aaagagcttg agcagcttga gaagcaac 448

<210> 26917
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C2

<400> 26917

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<210> 26918
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H5

<400> 26918

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 agaaagacca gcggcagcaa gtgcaacggg accaaactca acagcagacc agttcgtctt 180
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 cagcaggcgg gaggggtggtg gaaggggcag cagcgcagcc gcaggctcgc gttggactgc 300
 caccatggat gcttagccat ctgagctgct gaaagtttgc cctcaccgtc gcgatgtgat 360
 agcccaaaat ccagcaagtc ttccccggac cccggactgt ccccgcttct ccgtctgggtg 420
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<210> 26919
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E9

<400> 26919

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 tggcagcatg cgtgggagca aagcgagcgg cattctgaag tgacgccgca gcagctcaat 180
 ggcaataact tcttccatcc cctcgatggg gctgggtgaac ccacccttca gataggggtat 240
 ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg gttgccatga 300
 gatcgaacta ctgcgcaatt ccgaattaat aagcatggcc gcatgcagct gcctgtgcta 360
 tacgttgtgc ttggagtgtg ctttaagggtt cttgcatggc cagtatgtgt gtaacatttg 420
 tgatg 425

<210> 26920
 <211> 329

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-B10

 <400> 26920

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 atatgttatg taagcacaaa tgaaacatgc cggactagtt gcttttgctt gtctatgtat 180
 ttgtttattc cctttgcctc aaagatccat cttcagggtg gccatgccgg catgaagtta 240
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 tgaaagaata atccctagtt ctgatcgc 329

<210> 26921
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-D7

 <400> 26921

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 gggtaaataa agatgcgatg gcagaatcat attgtactgc aagagtgaca attgtgtgtt 120
 ccactcacat atatgaccta gttttgtgtg tctatatgtc gaaaccata tgtctgtgat 180
 tttattatat gttatgtaag cacaaatgaa acatgccgga ctagttgctt ttgcttgtct 240
 atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaata atataaaaaa aaaaaaaaaa 360
 ataaaaaaaa taaaaaaaaa gggcgccctt ttttaaggagc caaattttac gtacccttac 420
 ttgcaacgca atagttttt 439

<210> 26922
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-C4

 <400> 26922

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 tgggtagagg aaggattgag atcaagagga tcgagaacaa cagagccgg caggtcacct 120
 tctgcaagcg ccgcaatggg ctctcaaga aggcgtacga gctctccgtc ctctgcgacg 180
 ctgagggtggc cctcatcgtc ttctctagcc gtggtcgcct ctacgagtat gccacaaca 240
 gtgtcaaggc tactgttgag aggtacaaga aggcacacac cgttggtctt tcctctgggc 300
 ccccgctcct agagcacaat gccagcaat tctaccagca agaatacagca aaactgcgca 360
 accagatcca gatgctgcaa aacactaaca ggcacttggt tggtgactcc gtgggaaacc 420
 tgtcac 426

<210> 26923
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-F6
 <400> 26923

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 agatcaagag gatcgagaac aacacgagcc ggcagggtcac cttctgcaag cgccgcaatg 120
 ggctcctcaa gaaggcgtag gagctctccg tcctctgcga cgctgagggtg gccctcatcg 180
 tcttctctag ccgtgggtcgc ctctacgagt atgccaacaa cagtgtcaag gctactgttg 240
 agaggtagaa gaaggcacac accgttggtt ctctctctgg gccccgctc ctgagcaca 300
 atgccagca attctaccag caagaatcag caaaactgcg caaccagatc cagatgctgc 360
 aaaacactaa caggcacttg gttggtgact ccgtgggaaa cctgtcactc aaggagctga 420
 aacagc 426

<210> 26924
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-B1
 <400> 26924

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attaactacc aggattatct caagttgagg acaagggtcg aattcctcca aactacacaa 120
 agaaatattc ttggcgagga tctgggtccg cttagcatga aggagctaga gcagctggag 180
 gaccaaatag agatatctct gaagcatatc agctcaagaa agaatacaat gctacttgac 240
 cagctatttg atctcaaaag caaggaacaa gaattgctgg atctcaataa agacctaagg 300
 aagcagctgc aagaaa 316

<210> 26925
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A11

<400> 26925

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 gtatatgcta ttttctatct tctttagaac taggtttgtc ggtttggttg gcaaacacga 120
 tctatgtact gacctgaact ttgtgtattc cttttttcca agcaggatct cacgttgact 180
 tactctgttt cgttgcgctc tttcttttca aaactagatt aactaccagg attatctcaa 240
 gttgaggaca agggtcgaat tcctccaaac tacacaaaga aatattcttg gcgaggatct 300
 ggggccgctt agcatgaagg agctagagca gctggaggac caaatagaga tatctctgaa 360
 gcatatcagc tcaagaaaga atcaaatgct acttgaccag ctatttgatc tcaaaagcaa 420
 ggaacaagaa 430

<210> 26926
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A5

<400> 26926

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 gtggagcaaa gacactgaat tccttccacc tgaagcaatg tgtgaagagg tacagttctt 120
 ttgatttcct aactgaagtt gtcagcaagg tacctgatct tgggtggcgt gattcctgtg 180
 gagatgaaag aggattacct agaagaagaa agtcaaattg ctgtgaccca gagaatgatg 240

aatcaagatc tagtaaaatg gccataagaa atgcatacat cagccccaga ggacgtggga 300
 ggggtcgagg cataggacga ggtctgccac caaccaagag aaaggagggtt ggttatgtac 360
 aatttgaaga tgagagcagc atgtttgctg aacatgggtga gcccttgcca ggagaggata 420
 cagttcaaga gatcaatggc 440

<210> 26927
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B9

<400> 26927

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 gaagcgcttc gtccagtccc ccaactcctt cttcatggat gtcaagtgcc agggatgctt 120
 cagcataacc acggttttca gccactccca gactgttggt gtgtgcccag gctgccaaac 180
 tgttctctgc cagcccacgg gaggaaggc gaggctcacg gagggatgct ctttccgccg 240
 gaagggagac tagagctgag tctgttatta gtactggatc ggttgtcaat ctccagtatg 300
 tgggtcttcaa gttttgctct gtgccccaga cgtaggggtc atgaacttcc ttagctaagg 360
 ctttccgcat gttgttctgt gctgctatgt atcgcacgtt ggttcttgct gaacttatag 420
 cttgtttggt tcgg 434

<210> 26928
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E3

<400> 26928

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 cggtttaacc gagacattca gacaagaaga atgagaacaa ggaggttgct gcgaatgact 120
 ttctaccagc gagcgccgct tatgaagcca tacagcactc tatggacctg tatgctacat 180
 acatcgcttg agggcctgaa gaggtaggat tctgatggct aggaaaggct gcgaggatg 239

<210> 26929
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D11

<400> 26929

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 gctagagcaa ttggccttat gcccatgatt gaccaggggtg aaaaggatga caagataata 120
 gcagtatgtg ctgacgatcc tgaataaccgt cactacaacg acatcagcga gctgtctcct 180
 caccgcctgc aagagatcaa gcgcttcttt gaagattaca agaaaaacga gaacaaagaa 240
 gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca gtactccatg 300
 gacctgtatg cccagtatat ttgcaaagc ttgaggcagt agattgcaag caacaattta 360
 tctatcatgc gtcttggatc ggggcgtgat ttttaataagc cgaatcgctt 410

<210> 26930
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G4

<400> 26930

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 gaaactccga cagtccgacc acaaggctct gtgcgggata cacagaagga tgagtgaaga 120
 ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat 180
 cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgata ttgagatcgg 240
 tcctgatgct cctgctgttt tcaatgttgg tgttgagata acacagggat gcaaagctta 300
 atatgaactt gacaagaaaa ccggactgat taagggtgat cgagtcctgg acttatcagt 360
 tgtataccct tac 373

<210> 26931
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C6

<400> 26931

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catgagcctg ttgttcctgg ttcgttcctg agagctagag caattggcct tatgcccatt 120

attgaccagg gtgaaaagga tgacaagata atagcagtat gtgctgacta tcttgaatac 180

cgtcactaca acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc 240

tttgaagatt acaagaaaaa cgagaacaaa gaagtcgcag ttgatgcatt cttgcccgcg 300

acaacagctc aagaagccat tcagtactcc atggacctgt atgcccagta tattttgcaa 360

agcttgaagc agtagattgc aagcaacaat ttatctatca tgcgtcttgg atcggggcgt 420

gatttttaa 428

<210> 26932

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H2

<400> 26932

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gctgaagatg ttacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag 120

ctagtagctt ttgcgagga gcagagactg ttttgccctgc ccccaacttt tagcttgagc 180

ttgctaataa tgtttacctc tggacgtatc aataatgggtg cttatgtacc ctttttttgt 240

gccgaattac ggtggatccg tcacttgaac catgggtttg gtgtatgtaa ttgcgtcacc 300

cgatgcctaa ggtgagactg aagtttttgg acatttgga caaggtagcc ttgtgcccc 360

cattggtcga atgctgccaa aactgtaccg gtcactctgtg ctccgtacgg attagcctga 420

tctgcgaatg caacttgtca gc 442

<210> 26933

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G8

<400> 26933

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 cagcacagcc tgatgtcgat gggtttcttg tcggtggagc ttctttgaag cctgagttca 120
 tcgacatcat caacgcggcc accgtgaagt ccgcttaaga tgttacgctg aagacgaaca 180
 tacttttttt ttgctcaact gtgctatgta agctagtagc ttttgccgag gagcagagac 240
 tgttttgcct gcccccaact tttagcttga gcttgctaataatgtttacc tctggacgta 300
 tcaataatgg tgcttatgta cccctttttt gtgccgaatt acggtggatc cgtcatctga 360
 accatggggtt tgggtgatgt aattgcgtca cccgatgcct atggtgagac tgaagttttt 420
 ggacatttgg gac 433

<210> 26934
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-D10
 <400> 26934

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 ctggaaatgc aatggaacca cagatcaggt cgagaagatt gtcaaaaccc tgaatgaagg 120
 acaggttccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc 180
 tgtggtcaag agccagctgc gccaagagtt ccatgttgcg gctcagaact gctgggttaa 240
 gaagggaggt gctttcaccg gtgaagtcag tgctgagatg ctcgtcaacc ttggtgttcc 300
 ctgggtcatt cttggacact ctgaaaggag agctctgctg ggagaatcaa atgaatttgt 360
 tggagacaag gttgcgtatg ccctgtctca gggactaaag gtcattgcat gtgttggtga 420
 gacattt 427

<210> 26935
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-B10
 <400> 26935

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gggcagaggg aggctgggtc taccatggag gttgttgctg cacaacaaaa agcaattgct 120
 gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180
 actggtaaag ttgccacccc agctcaggct caggaagtgc acgccttcct gagggattgg 240
 ctaaagacca acgtcagccc tgaggttgct gaatctacta ggatcattta cggaggctct 300
 gtaactgccg cgaactgcaa agagctagca gcacagcctg atgtcgatgg gtttcttgct 360
 ggtggagctt ctttgaagcc tgagttcatc gacattatca acgcggtcac cgtgaagtcc 420
 gcttaagatg ttacgctgaa gacgaacata ctttttt 457

<210> 26936
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-034-Q1-K1-B7

<400> 26936

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 tgctgagaag atcaaggact ggagcaacgt agttgttgcc tatgaaccag tttgggctat 120
 tggaactggg aaagttgcca cccagctca ggctcaggaa gtgcacgcct ccctgaggga 180
 ttggctaaag accaactgca gccctgaggt tgctgaatct actaggatca tttacggagg 240
 ctctgtaact gccgcgaact gcaaagagct agcagcacag cctgatgtcg atgggtttct 300
 tgtcggtgga gcttctttga agcctgagtt catcgacatc atcaacgcgg ccaccgtgaa 360
 gtccgcttaa gatgttacgc tgaagacgaa catactnttt tttt 404

<210> 26937
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E5

<400> 26937

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 gaggtcgttg tcagccctcc ttatgtcttc ctctctgtgg tcaagagcca gctgcgcca 120

gagttccatg ttgCGGctca gaactgctgg gttaagaagg gaggtgcttt caccggtgaa 180
gtcagtgctg agatgctcgt caaccttggt gtccctggg tcattcttgg acactctgaa 240
aggagagctc tgctgggaga atcaaatgaa tttgttgag acaaggttgc gtatgcctg 300
tctcagggac taaa 314

<210> 26938
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E5

<400> 26938

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cgcccccgaa cctggcgtct gccctaccaa ccgcagcagc gacactagaa tggccgcggc 120
gccgtcatcc ctgcgctcct cccacctctc cccaatcgcg gcggtgtcca ctcccgccgt 180
cccacatcag cttcgcacgc gctgctcccg ccgacgcgcc gggcgcatcg ttgccatggc 240
tggatccggc aagttcttcg tcggaggcaa ctggaagtgc aatggaacaa aggactccat 300
tagcaaaactt gtctctgaat tgaatgctgc tacccttgaa actgatgtag atgttgtgg 360
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<210> 26939
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E7

<400> 26939

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cacaacaaga tggaagtgct gatcagatag tagaatttgt tgtgtcaaag gaaaatgcga 120
atcaactttg gagttccatc ggcaataagc ttgaaacacc aaccaagaca ataacttcag 180
ttattccgca gcgtgatggg attcaagata actacaatga tcaa 224

<210> 26940
<211> 224
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-E8

<400> 26940

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ctttctagct gagaactgag ctgtagctga aggttcagtc attcttcacg ctcgagctac 180

tacatcttct tgctgctgag tgccgggagc tgagatcgat cgag 224

<210> 26941

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F1

<400> 26941

ccgacccact cgtccggcgt ttaattaacc ttatacatg tagtttatat tctccataac 60

agtgtctggt tcagtgcagt ttcctttact ttcaaaaagt gcctttcttg aacgggtcaat 120

tgaagaaaat tctgaccaag aataatgcat catcaaacta aatgacattc ctgggggtgcc 180

aagtcatttg agctagttgc aaggttctgc tatgggtgtg aaaatagagc atcaaaagct 240

act 243

<210> 26942

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F10

<400> 26942

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ccttccgccc acttggtgac aaatacgcag cggacgagga tgctttcttt gctgactacg 120

ccgaggccca cctgaagctt tcagaattgg gatttgctga ggcgtaaagt gagagagAAC 180

gaaccagaag agtgtggtgg ttgtcgctcg ccggcaggcc ttgtgttttt gttgtctgct 240

ttttctttga atgaagatgt gatgaactct gctgaagatg tattgtgttt gttgtcatgg 300

ttcatttttc tattttattt atctataata tctgtcggag aagctttgat atgaatcggg 360
atctgtttcg gaaca 375

<210> 26943
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-F11

<400> 26943

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tctgattgcc aactgtccag gctagcctga agtgtggtaa ctctatttgt aatgaaccct 120
aggttttctt tgagccttct gaggtgacct atcagacctt caacgactgn tatgtctccg 180
gttgcgatcc agttcttgca tgcacatttt ttccacaccg gggaatactt gttcaccgtg 240
agaaactacc tacacgaaca aaattgtagc gtctagtctg tgacttatgt tccatatact 300
aactggaatt aagttggttt aagttaacag tatttgtagt tcggtttatg ttatcttatg 360
tttgttgcaa aattttatga tctttat 387

<210> 26944
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F12

<400> 26944

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caatgctata agagaggcct atccagacat tcagatgatt tcaaactgtg atggttcac 120
tagaccactt gaccatctg cggtatttga tgatttccat gtctatactg attctaagac 180
tttgtttaac atgaggagca catttgacag aacatctcgt agtggaccta aggcttttgt 240
gagcgagtac gctgtctgga gaagtgcgc gggtagagga agtcttcttg ctctgttggc 300
tgaagctgct ttctcactg gtctggagaa gaacagtgat attgttcaga tggcaagtta 360
cgcaccactt ttctgaacg acaatgacca aacctgtgac ctgcacgcta ttctgttcaa 420

cttctggcat cactattgaa cttc

444

<210> 26945
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-F2

<400> 26945

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gggagaacaa gtogttggaa acggtgaggc ggctgctgga ggagaccttc acgagtgagg 120
cagatgcgga ggcgctaccg agcttgccct cggggttcta cgacgccttc gtcctgaggg 180
gaatccgcgt cgtccaggcc ctccagcccg gcacactcct ctgccacttc aacgtgccct 240
ccagactact caactcgggc ggcttcctgc acggcggcgc aaccgccttc ctctgggatc 300
tggttgccct cgnccgcttc gccactgccg ggctacgcac caggggctca ccccttgaga 360
tgaacatctc ctaccttgat gctgcttttg ctgatgaaga gattga 406

<210> 26946
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F3

<400> 26946

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gggccttgct ggagcgcgct gttgtcagat gatatgcagg gactcactgc tgtgcagtac 120
cgctagaatg cggctggtgc tgaccgagtc caacatgagc acccgtaga acgtcatgct 180
tgctaggccg gcttttgagg ccctggccaa gcccgggatg gcccatg 227

<210> 26947
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F5

<400> 26947

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accaggggtgc cgtgcgagtg ccctggcctc aagatcgggt tccacgtgga ggagtactcg 120
agccccgtct acttcgcggg gctgggtggag tacgaggacg gcgactgcga cgtgggtgcat 180
gtggacctga tggagtccaa gacggcgcg 209

<210> 26948
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F8

<400> 26948

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atatgtctata cctagaaaga agggacagga tagggatgaa ctaaaaaaaaa aagaacaaca 120
aagacaaaaa 130

<210> 26949
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F9

<400> 26949

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gtgtgctact ccaacttcaa cgacatcatc cactcgatca tcgacatgga cgcggacgtg 120
atcaccattg agaactcgcg gtccgacgag aagctgctct ccgtgttccg cgagggcgctc 180
aagtacggcg cgggcatcgg ccccggtgtc tacgacatcc actccccag gatcccgtcg 240
gctgaggaga tcgccgaccg catcgacaag atgctggcgg tgctggacac caacatcctc 300
tgggtgaacc ccgactgcgg ccttaagacc cgcaagtaca cggaggtcaa gcccgccctg 360
accaacatgg tctccgtcgc taagctcatc cgcaccacgc ttgccagcgc caagtgagca 420
cctttttttt gcctttt 437

<210> 26950
<211> 325

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-G1

 <400> 26950

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 agcgcaggat cgggggtggcc atcgactact cggagagcgc caagaaggcg ctggactggg 120
 ccatcgacaa cctgctccac cacggggaca ccctcgtcgt cgtccacgtc ctgcaccacg 180
 gcgcggagga gaccaagcac acgctctggg ccaagtccgg atccccgctg atcccactct 240
 ccgagttccg ggagcccagag gtgatgcagg gctacggcgt gcgccccgac gccgaggtgc 300
 tcgacgcgat cgacacggca gcgcg 325

<210> 26951
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-G10

 <400> 26951

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 cgtctgtcgc cgccgagggg atcggagcaa gatgttcttc cacatcgtgc tggagcggaa 120
 catgcagctg caccacgac actttgggcc gcaccttcgc gacaagctcg tttccaagct 180
 catcaaggac gtcgagggca cctgcagcgg gcggcacggg ttcgttgtgg cgatcacggg 240
 tgtggaggac atcggcatgg ggctcatcct gtaaggcacg ggatacgtca cttccccgt 300
 caagtaccat tgcgttgtct ttagaccctt taagggcgat atcctcgaag ctgtcgtttc 360
 catggtgaac aagattggct 380

<210> 26952
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-G11

 <400> 26952

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catcgtatga gcgagaaaag atgggccaga cattcacagt tcattacttc acttatgaga 120
acggaatcca gaagtactta atctggggtc tgaccgcccg catcttgatc catgctgctt 180
cagttgtata cgagcgaccg ccagacttta cagagcgaag agcacatttc aaattgccaa 240
agttcacaaa ggactgctct tcaatgcgca ggacctgcta aacattagtg cacactgcct 300
acgctgctat ctcagctaca tgctatttgg attacatgat gttgcaccaa cagagtttat 360
tgaatcta ataggcgtccaa atcacttgat gtcatatg 398

<210> 26953
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G12

<400> 26953

cttcgtcact ttaccgtctt cacttatctt atctagtaac gctgacattg tggccccggg 60
gtggtgcctt ggctgacctg accagcaagc aaataggccc agccaactcc gatcccaccg 120
gcaccagccg cccgcaaccc gcaaagctgc ttccccggact agctagggtt tcgtctacgc 180
cgcttgatct agtcctctct cccggcacgc gagggcgagc cgttgatggc ggcggcaccg 240
gcggacgcta aggcggaggc cgccaagatg gacctcctcg aggacgatga cgagttcgaa 300
gagttcgaga tcgaccaaga atgggatgac caggaagaag gcaacgaaac cgttcagcag 360
tgggaggatg attgggatga cgatgacgtg aacgatgatt tctctttgca gc 412

<210> 26954
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G2

<400> 26954

cccacgcgtc cgcttacgcg tccggaatca gatgtaggct ggccggcgat gtcgccggca 60
ctcggaaggc cgtcatcgac atcgctcgagc tctgctacaa ggccggcgcg tggaagacgc 120
taaacgacca gatcggtctc ctctccaaga ggagaggcca gcttaagcag gccattactg 180
ctatgggttca gaaagcaatg gactacattg atttgacacc agacattgac acacgagtcg 240

agctaatacaa aacactgagc agcgtctctg ctggcaaaat ttatgttgag atagagagag 300
caagattgat caaaaggctt gcaaataatca aagaggagca aggaaagatt gacgaggctg 360
ctgatttgat gcaagaagtt gctgtcgaaa cattt 395

<210> 26955
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-E6

<400> 26955

cccacgcgtc cgagatacca ttctcgattg aaaacaatcc tgaaaccaag ccatgggtct 60
gcaggagaaa tttgaggagt atgctgttaa ggcaaagacc ttgcttgaga acacgatcaa 120
tgagaacaag ctgatcctat acggtctcta caagcaagcc acggttggag atgtgaatac 180
cgatcgccg ggcataattct accaaaagga caggccaag tgggatgcct ggaaagctgt 240
tgaaggcaaa tcgaaggatg angcgatgaa tgactacatc accaaggatga agcagctcca 300
ggaggaggct gccgcctctt aaaagtctct taatagtgtt gccaaacagc tatttgtcag 360
atgagctttg tgccatttcc tcattagaag tatatcattc gatccattgg ggatct 416

<210> 26956
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G4

<400> 26956

gatgaatttg ctcatctctg ctgatcattc cagttacgta caataatata tgacctttct 60
tggttgagttt gagccgtcaa catacatgac atggacgcca agctcttgct tcaggctcctg 120
tctcccggat ttctgccaag tttttgcttc agcccaagag caggaaacca gataatgtag 180
atgctaaaaa aaagctcttt gggatttgga ccagtgagtc tattgcgtga aaggttcaag 240
ttttgaagag gacagttgct tagactccaa ggtattatct cactgaggc cattggcatc 300
cagaacaaat ctagaaagca ctgttaaatt tctaagagtt tctgggatta aattgctgag 360

agtttctggg atattcgggc ttcttgag

388

<210> 26957
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-G5

<400> 26957

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cgggctcaac atccccgaca tcatcagcga gcacctcggc tcccagcccg cgtgccgta 120
cctcagcccc gacctccgcg gcgaccagct gctcgtcggc gccaaacttcg cgtccgccgg 180
cgtcggcatc ctcaacgaca ccggcataca gttcgtgaac atcatcagga tctggcagca 240
gctgcacaac ttccaggact accagcagag gctggccgcg ttcgtcggcg acgacgcggc 300
gaggcatgtc gtgagcaatg cgctcgtcct catcacgctc ggccggcaacg acttcgtcaa 360
caactactac c 371

<210> 26958
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G7

<400> 26958

cccacgcggt cgagctcacg ttgaaatctt cgacctgcaa aggagcatat aaggcatacc 60
agaatctgca gaaggtatac atgggagcga cagtaatatg ctgtgctgcc gctgggtattc 120
ctccagatgt tcagctcatg ttatcgatcg gtacggctgc ttaagtcagt gccgctgtag 180
catacgcatt ccatgagctc cag 203

<210> 26959
<211> 206
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-C8

<400> 26959

agaagtccta gtgttactag ctttcctttc gctgcatctc agagttccca ccttgggttg 60

gtagataata agaatgttat tgatacacia aggctagaag aagaaaagaa aaggctttac 120

cgaaggggagc tactgctatt gttctacttg ttatatttga tgatgcaatt gggtatcatt 180

tatctactct tgatcagttt ttataa 206

<210> 26960

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C9

<400> 26960

cccacgcgtc cgagcattta ttgaggatat tcacaagatc aaaatatcgg aacttggcgg 60

aagtcacctt caatcagcag aggggacagg agatcaaaat gataagttaa aaagtttgga 120

agtacaggct tcacaggaag acagtataga agaccaaccc tacaagcttt gtgctgtatg 180

tcacagcctg ggtgggtgcag ttatgctgat gtatgtgggt acttcaagga tcacacaaaa 240

gccccacaga ttgtctagac tggctcctgct atctcctgca gggtttcatg aggattccaa 300

tgtgggtattc agtatggtag agaagctcat cttgtttggt ggtccagtgc ttgcaccact 360

tattcctgga ctttacatac caactcgggt ctttaggatg cttctgaaca aattagcaag 420

ggatttccac aattattcag ctt 443

<210> 26961

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D1

<400> 26961

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agcatttggc ggtagcgtt gacgagcgac gagtaaacc taatgctttg atcgcggcgg 180

cgtcgtttga gacactcccg aatcgatccg cctacatgcc tatgaatcct acttcctcgt 240

cgactcctga gtcggcgtct tcgacgcctg ctgtggccag ctactttcct ctacctttcc 300
acctgcagca gcaccagccg cagccgc 327

<210> 26962
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D10

<400> 26962

ggaaaggaga agagaggggtc ggaatatatt cggccgagga gggtgccgtg atcgcggtgcc 60
acaccaagga cgagttcgac gcccgcatgg ccaaggccaa ggagcagggc aagctgggtgg 120
tcatcgactt catggcccc tggtgcagtg ggtgccagat gatggccccg gtgtacgcgg 180
actgcgccag caagtaccct tccgcggtct tcctcgaggt cgacgtcgac gaactgctgg 240
aagtcgcgaa gatctacggc gtccatgtga tgccgacctt ctgcttcacg aggaacggcg 300
agacgctcga gagctttgct accgtcgacg aggacgagct ccgggacgcc gtcaggaagt 360
acgccgtcgc tggcactacg actgcttctg cctcggcgta cgtctaattc aggagatgtg 420
atgtgtagca aatagcgcgc gc 442

<210> 26963
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D11

<400> 26963

accactcgt ccgcccacgc gttcgcggtt tcgtgggctt ctcttggccc agaatggggg 60
aatggctcgg gggcctgttg acaatcctgc tgagagtga atgtgcaagt ttcaagtact 120
tctaacttct aattacctgc attacaaata tcattttttc ccaaataata catagcatca 180
ggtttttctc tggtcatact ttttagtaa cttaattcct ttgagttatg tagtattaaa 240
attatgattg gctatctttt gatgcaatga agttaatatc tgtaactttt tactatggaa 300
tctttctgac ttttaagttac taatatttgt tttgagttct ccatattgct ctgatattat 360
tgatgtttgc aaccaaactt aagcta 386

<210> 26964
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-D12

 <400> 26964

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 tgacgtcaag aatgaattca agtcaatgtt tctgagcttt gccagtgccca agaatgccgc 120
 catggagatc ccacctgaaa actacctcat tgtcacaaaa aatggaaatg tgtgcctggg 180
 cattcttgat ggaacggctg ccaagctgag tttcaacgta attggagaca tcacgatgca 240
 ggatcagatg gtgatctatg acaacgagaa atcgcagctg ggatggggcgc gtgggggcatg 300
 cactaggagc gccaaagtcta ttctgtcttc ctttccctga gctcagttct atgtacttct 360
 gatagagttt aagaaaatca ctatattaaa ctttctcgca atgcatgaat ttcttaactg 420
 aagaaggaag gaaaaagaga gag 443

<210> 26965
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-D3

 <400> 26965

 agctcttgca ctagctagag accgaactga gagttattgg agaaccatga tgaggtctgg 60
 ccttatctcg ctatgtttcc acctagccct ggccatcaca ctggctgcaa gtgttctctg 120
 ccttgctcgt agtagggtaa tcgacatgga accgcaactc aaaccgacgc tgcaactaga 180
 accaaagcat ggtgtatctc aaccagacag aaaccaagaa cccaaaccga caccacaatc 240
 tgagccaaaa ccagagccta aaccggaacc tgaacctgca ccacaaccag accccaaacc 300
 cgcaccacag ccggacccaa aaccgcgacc acaaccgac cccaaaccag aaccctaaacc 360
 tacaccacag cccgacccaa a 381

<210> 26966
 <211> 53
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-043-Q1-K1-D4
 <400> 26966
 cggacgcgtg ggcggacgcg tgggcggtcg cgtgggcgga cgcgtgggaa aaa 53

<210> 26967
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-D6
 <400> 26967

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 cagaatgcta ctctcaccct tcaaggctgt ggcggggcca tggacgacct tgtcgagcgc 120
 tttaaggacg ggctccacat gtgcatgacc gaggtctatg acaagaagcc ggagttgttc 180
 gaggcctctca tggcctgtca ggctcccaag tacatggtgt tcgcctgctc agactgccgc 240
 gtgagccctg cggtgacact gagacggcag cccggcgagg tattcaccgt ccgcaacatc 300
 ttcgccatgg ncccagccta cgacaagacc aagtacactc gcatcgggtc cgtcatcgag 360
 ta 362

<210> 26968
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-D7
 <400> 26968

cccacgcgtt cgccctcgcg ttttccacg cgtccgacta gttctagatc ttgcgacagt 60
 actcactgac gctgaggtcc ccctggacgg ctacgggtgg ggccgtggag gcggcggcta 120
 cggcgggtggc gggcgccgat cggtttcgga gaagagaagc aaatcaagat gtttctcggc 180
 tcgctcccgc ggcgcccag caaggaggct gcttacaagc agctgcngtc ggacatcatc 240
 atcatggcct gctgcgccgt cgtgaatgcg gccaccctt acattctgca attcgctcgc 300

ccgcgcacggc gacattcagg aactcaagct agatct 336

<210> 26969
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D8

<400> 26969

gacccacgcg gccgccagcc gccgtcggat cggattcgaa ctatagcaag cagctgcagc 60
cg 62

<210> 26970
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E1

<400> 26970

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cgcgctcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120
tacgccaacg aggtgcccac gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180
ggcgtgggca agtccgggaa gccgtccac tacaagggct ccaccttcca ccgggttatc 240
cccagattca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300
atctacggcg agaagtttcc cgacgagaaa ttcgtgcgca agcacaccgt ccccgggtgtg 360
ctcttcatgg gc 372

<210> 26971
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E10

<400> 26971

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tgccagtcgc tgccgcgcgt gctgcgctac gcggtgggcg ccggcgagca ctccgtcgcc 120

gcggccacca cgggtgctcga cctctcccgc gcctgcagcg tcgtcatgct gctcgcctac 180
 gtcgcctacc tcttctatca gctcaagacg cacgcgcagc tgttcgagcc gcatgagg 238

<210> 26972
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E12

<400> 26972

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 atcaccggca cctcccaggc tgattgtgcg gtgctcatca ttgactccac cactggtggc 120
 tttgaggctg gtatctccaa ggacggccag acccgtgagc atgcgctcct tgctttcact 180
 cttggtgtga ggcagatgat ctgctgctgc aacaagatgg atgccactac cccaagtac 240
 tccaaggctc ggtacgacga gatcgtcaag gaagtgggtt cctacctgaa gaaggtgggg 300
 tacaaccggg acaagatccc cttcgtgcc atctctgggt tcgagggtga caacatgatc 360
 gagaggtcga cgaacctgga ctggtacaag ggccccaccc ttcttgaggc gctggaccag 420
 atcaac 426

<210> 26973
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-E2

<400> 26973

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 gagattggtg aaaacatga gctcagtgg catatgacag tgcagcttgg tctgctactg 120
 cttgctctgg actctngcc tcggatgttg attccaaaac ctgttctact gaagaagcta 180
 catcagcaaa ggcacatcaagg tcaccagtac gcaatgcttc acggcgtcga tgaatcagtg 240
 ggagcagaac ctggggaaca tcatgaggga gcacatgtcc atgaggagtt tgagttcagc 300
 gaagttcttg atcaccagct gattcacacg aacgaatttg gtcttggtgc agtcccaaac 360
 acagctgtcg accttcggcc 380

<210> 26974
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C5

<400> 26974

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 tattgtttca gtagcttggt ggacgaattc ctgttcctgg tcatccggcc gccgagaagc 120
 cttctcgcca tctagcattc tcttggtcat gttggccctc tgaacgagcc gcaccagcgc 180
 ttgcaccagc tgcattgacat tga 203

<210> 26975
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E3

<400> 26975

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 caccagtcgt caataataa ataaataaat aaataataa ataaataaag gccaacgtac 120
 gacgacaaat tagtggcgcg cgcggtagta gctagcagag tatgcgccgt cactgtgtcg 180
 atctgcagtt tggtcgttta aaagtgattg tagtgtgtac tatgttcagc tcgatgatat 240
 aggagtcgct atatacgctt gctcccgtgc tgaacagggt atcgatc 287

<210> 26976
 <211> 393
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-E4

<400> 26976

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 gttccaatgc tttgcttcga gtgctaaatc tgtcagcaga tctatattcc ttgcataccc 120

tggctggaaa acttgaatct gtatcagcga gaggaatgga tcaggagaga tcaaggtatc 180
 aaaagataga agaattgaaa gaaacagtaa gagccacgga agatgcaaaa acacgtgcac 240
 ttaaagaatt ggaacttata aaggataata acatgaatga aattaaaaga tntaacaagg 300
 aaaggcgcca agatttggtg gagatgctaa aagggttgt attggatcag gccacatnac 360
 tcggatcatt tgctacaata tggacaaaag tag 393

<210> 26977
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-E5

<400> 26977
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 ctggccgcgc cccccgctc cgtcccctcg cagattccca ggtcttcgcc gctcccttcg 120
 ccgccaaga gcacccacta ggtaaatcc gccaggggga aatctccatc aagtggctcg 180
 tgctaattat gcgatcttca tgggctgact cagttgcgaa cgccgaggaa tcggcgcccc 240
 cgactgctgc tgctaatggc tctgntgcaa ctcatagcac ctgcgcacct acgcgagct 300
 cctacgtgcc ttcacatctt cggggccgct cagctggtgc tgcttgtaaa gctcaagcag 360
 gcttagtagc accagcacia ggtggaccac tggcattggc ttctgcacia acttctggtc 420
 aggtgctgc t 431

<210> 26978
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-A6

<400> 26978
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 aagcaagaaa tgatcatgag gcagcagaga agcttaagtt tgtcatttat caaaggccca 120
 aagcattcca aaatggaagc actgatttgg gaaacaagaa tgggtgcacca aaaactgttg 180
 aagagagaat agaggaatat aataaagcac gagcacgcat cttcaatggc tctgtttctg 240

cagattctga tgctgcaagt gttctgggaa ctctttgcac tggcagagat gagtcagtaa 300
 atgttgaacc ttctgttgat taaatcaaag tcagcacgat gaacaaccgt tccatagttg 360
 ct 362

<210> 26979
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-043-Q1-K1-A7
 <400> 26979

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 ctactcgatg ggtggtggcg aggtgccact gctcgacttg gtagcgtacg gtggttattt 180
 attcgccggg ctatcgctcg ccgctcgtcgc gaggtcatg tgggcgtact cgtactatgt 240
 gatgatgccg tggatgagcc tgtgcatggg ggtgttcctg gtgaggacga tgaagagggt 300
 gctcttcacg gagatgagaa gcagcgagag gactcgtcg cggcagcact acttccttct 360
 cttcatggca atcgcacagt tcccctgttc ttctggctcg gcagca 406

<210> 26980
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-043-Q1-K1-A9
 <400> 26980

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 aatcatgcc aagaataacg taacgtgcag agtgctggg cggccatcg tttattcttt 120
 cacacaagac aacaacaaaa gaacagactc gaaaccaacc cgtaatcact cgaccacagt 180
 cgccctgctg ctgctgctag tcagtataca acgcttctgc agcatcagct cccgaaacct 240
 acccgcgcg tcggcgaggc cggcgcgcg gagggcgctc agcagccggt tgcaggcgga 300
 gacgtcgaac tcgggggcct tggagcgctg ccaactggtcg acgacctccc cggcatcctc 360
 caagccgccg cacgccaggt aggacgagac cacgcagacg tagttccggc tcgtcatgcg 420

ctgctgcgac tg 432

<210> 26981
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B1

<400> 26981

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ggagcagatg ttgtgtatac agatgttttg gccagcatgg gccaaaagga agaagctgat 120
tatagaaaac agaagttcca gggattcacg gtggatgaag ccctgatgga gattgctggc 180
ccacaggcct accttatgca ctgtttgccc gcagagagag gaggagggt gacagacggg 240
gccatcgagg ctccaaattc aatcgtgttc ctccaggctg agaacagaat gcacgctcag 300
aacgccatca tgcttcatgt tctcggtgct ta 332

<210> 26982
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B12

<400> 26982

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ttctttttct tcttcttctt cgggggtttc aggttttagta atctgctagt gagatggaag 120
aactgaggtc agatcagacg tgggtggtgac tagccatgaa agtgaacttt actgttaccg 180
tactgtgcga tcaactggtg ggggtaatta gctagctagc tagctgctgg gggttatggtt 240
aatgcatgaa ctgctattag ttaccagggtg ttagtggttac tctcgagtcc tgctcttggt 300
actgtttgtg tactgactgt gtcactccac tacta 335

<210> 26983
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B2

<400> 26983

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gtctgcctgg tcagaacttg tggtttctct gaagtcagaa tatccgaagt acacaccttt 120

gctttctaag attttgcaat gtgtcctcca gaaaggaact gatggtgata agattagcca 180

tgaaaaagag gttattgctg cagccgatga ggttggtggc agtattgata aagaggaact 240

ggctaagtat ttatctctaa attcagatcc tgaagatgaa gaagcacaga aattcaagaa 300

aaaaatagaa gatacgcggg atcagttggc tgatgcacta ta 342

<210> 26984

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-B3

<400> 26984

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cctgatccaa agcccaagct caaagctcag tatcnagagg gttgttaaca atctcaaggg 180

cgtaataact gctgatgaaa tgggcctgca cgtcaaagca atgagagcac tcaaaaccag 240

acttcattgg aagaagactt cacaggccaa agggctgaaa agtccatctc ggcaagtttc 300

cctgtagatt cccttggggc ttgaagaaag tattcgatta cccttccagg cagagtgagg 360

ttgacattgg cagccctaag gcatatgacg gagaagtgat ctgaaaagct tgggcattcc 420

aa 422

<210> 26985

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B4

<400> 26985

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cattttaact ggatgtcatt ttccaattga tacaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaat gataaaaaaa 180
 aaaaaagtaa aacaaatta 199

<210> 26986
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-043-Q1-K1-B5
 <400> 26986

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 tggtcgtttt gatcaaagaa caacccatga ggaaagacga atgactctgg agacactcct 120
 gcatgatgaa gagagatatc aagactctgt tcatgatggt ccttcattgc aggaagtga 180
 ccgtatgatt gctaggactg aaagtgaagt cgagcttttt gatcagatgg atgaagactt 240
 tgattggaca ggtgatatga cgaagcatga tcaggttcca aagtggcttc gtgttaactc 300
 caatgaagta gatgctgtgg tggctagtct gtccaaaaag ccgtcaagaa atatgtcatc 360
 tgggggca 368

<210> 26987
 <211> 195
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-043-Q1-K1-B7
 <400> 26987

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 attgccatac ggtaacaaat gatagcaatc tgttgcagac atagattatt cgatgatgct 180
 tttaaagata tgcatt 195

<210> 26988
 <211> 143
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B8

<400> 26988

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ttgacgcggc ggatgtttgt aattccaatg atacaactca gatccaaaaa aaaaaaaatt 120
aaaaaaaatt aaataaaaca aaa 143

<210> 26989

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C11

<400> 26989

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gaagcttgcc tacgttgccc ttgattatga acaggagctg gagactgccca ggagcagctc 120
ctctgtcgag aagagctacg agatgcctga tggtcaggtc atcaccattg ggtcagaaag 180
gtttaggtgc cccgaggtgc tgttccaacc atcccttggt ggcattggaat cgctggcgt 240
ccatgaggcc acgtacaact ccatcatgaa gtgtgatgtt gatatcagga aggatttgta 300
tggtaacgtt gtcctcagtg ggggatctac catgttccct gggattgccg atcgtatgag 360
caaggagatc acgttcctgg ctctagcag catgaagggt aaagtgattg cgccacctga 420
aaggaagtac agtgtctgga tcg 443

<210> 26990

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C12

<400> 26990

gccgccgtcg caggctttcc cccatcgtct cacaagatgc agatctttgt gaagactctg 60
acggggaaga ccatcacttt ggaggtggag tcctcggaca ccattgacaa tgtgaaggcc 120
aagatccagg acaaggaggg catccccccg gaccagcagc ggctcatctt cgccggcaag 180
cagctcgagg actgtcgcac cctcgcgcac tacaacattc agaaggagtc caccctccac 240

ctggtgctcc gccttcgctg tggctccaag aagcgtaaga agaagacgta caccaagccc 300
aagaagatca agctcaagca catgaagggtg aagctctccg tgctgcattt ctata 355

<210> 26991
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-C2

<400> 26991

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gacaattgct tgctgttctt cctggaatca tcagaagtca aagacgatgc tgcttacaga 120
gcaccagana acatganatc caacagaatg ctaacgcccc aatcagacat atatgctttt 180
ggtgtcctnc ttcttgagct ccttagcgga aagccaccgc ttgagcactc aatcttggtc 240
gcaagcaatc ttcaaacctt tggttcagtca gcgaga 276

<210> 26992
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-A5

<400> 26992

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ttctgtgagc tgggtgcccc ctaacgtctc aggcagaagc aaggcggcgt tgccttcgca 120
tgatcctgaa atggaggtag atccatggaa tcttctcgaa gatggcacia gctgcccttc 180
aacagcatct ggaagccatg gcgcgagtgg agtgacgggt gaccatgcta atctgaaagc 240
gtgcagctgg cttaaggggt ctgtgagggt gaggaggaca gaactgacct acattggctc 300
tntagacgat gacacctgac gtgtgtatga ttatttttgt gaattgtgga agaaattagt 360
ctcacctgtt ggcactggag tgaatgggtg 390

<210> 26993
<211> 383
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-C3

<400> 26993

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tcaggctctt atccatgggc tgaatagaca ctactactca attgcaatca attaccggaa  120
aaatgagctt gaggagaaaa tgctgttgaa cttgcacaaa aagaaatgga ccgatgggct  180
aattttgaag aggtttgaca ctactcgaa aaccaacgag cagactgtcc aggaaatgct  240
aaacctagcc atcaagtaca acaaggcagt gcaagaggag gacgaactgc ctntcgagaa  300
acttgcgata gcaaatgtgg gtcggcaaga tgcaaaaaag catttggaag agcatgtgtc  360
gaatttgatg tcatcaaaca tag                                           383

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<210> 26994

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-C4

<400> 26994

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tggcagtcaa gcaccgggat cacatgaggc gaaagataat ggcgatgaag attggcaggt  120
ggatgagata gcttgggtatt taggctctgc ggaatgcggt gaatcatata attgtagtgg  180
ataatttttc gtgctacaag tgctggcata aaactatggt                          220

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<210> 26995

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G8

<400> 26995

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atccattata tgaaatacga caactgcaac gactccggaa ggagcttgat ggacaggtat   60
acgaagatga acgacactat gaagacgtat gggaagggca tattattatc gctgtgcgaa  120

```

tggtggaggc aaaacgctga tacctgggca agctgcatgg ggaacagatc gagaacg 177

<210> 26996

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G9

<400> 26996

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gtgcactgag cagaggaaac cttggatttg cacttctact gatgccatgt cacctttcaa 120

aaaaaaaaaa aaaaataaaa ttatataaaa taaatagtag tacattata 169

<210> 26997

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H10

<400> 26997

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ctggacgagt ctgtcctgtg gacagagagc agggacgttg gtgatgggtt ccgctgcatt 120

aggatggtca acaacatcta cctgaacttt gatgctttac atggagacaa ggaccatggt 180

ggtgtgcgcg acgggacggc ccttgtgctg tgggagtggg gcgagggaga caaccagcgc 240

tggaagattg ttccctgggtg aacaaggaaa tgtgtgaccg agcccgacc aaggaggagc 300

tcttgccgta ataagtgaag tgattggtac tgaagtttct ggaaataaga tgcttttcct 360

agatgcctgt ttgtgtgagt atttgcgttt ccaatttcgt tttcatgatt attaaacgcc 420

ttgatatt 427

<210> 26998

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H11

<400> 26998

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 cgagagagac gaatcttccg aatctctcgg tgcgatggcg ctctccgacc gctcccgcga 120
 gtcgtcctc cagagcttcc tctacgcctc ctccggcgcg tctttcgctg ccacaggagc 180
 cgccgcgcgc ctccctgtct cctccccggc gcctgccgcg gctggagcag gaggcggcgt 240
 gccgttctcg atccaggcgc ccaaggagaa gatcgagatg tactcgccgg ccttctatgc 300
 cgctgcact gccggaggaa tcgccagctg cgggctcacc cacatggccg tcacgcctct 360
 cgacctcgtc aagtgcaata tgcagattga cccagcgaaa tacaagagta tctcatctgg 420
 atttggtatc ctgttaaagg agcaa 445

<210> 26999
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-H12

 <400> 26999

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 tgggtaagaa ggccgcggcg gggcgctcgcg gcggggggcg cccaagaag aagccggtct 120
 ctcgctccgt gaaggccggc ctccagttcc ccgtaggcgc tatcggccgc tacctcaagc 180
 agggtcgcta ctcccagcgt gtcggcaccg gcgccccctg ctacctcgt gccgtcctcg 240
 agtacctcgc cgccgagctc ctcgagttgg cggggaacgc agcgcgggac aacaagaaga 300
 accggatcat cccgcggcac gtactgctgg cgatccgcaa cgacgaggag ctcgggaagc 360
 tactggccgg cgttaccatc gcacacggcg gtgttctggc caaca 405

<210> 27000
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-H2

 <400> 27000

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gcccttggtgta atgggcatta ctataccgct atggcggttg atgacctaaa attacattag 180
 tgactgggtc cttcaaaaat gagaaacaac tcaataatgg aaagcattct ccattacgag 240
 aagaacccaa 250

<210> 27001
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-042-Q1-K1-H4
 <400> 27001

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 tggcggtggg gttggtcggt ggcccggtgc cgcaggtcgt tgcaatcatg caggcgatcc 180
 atccaaaaag tacttgttgc cttggcgggg ttctcaggtc gctgaccagc gtggtcgcgt 240
 actgggcatg catgtttttg acgcttgcta tttgcctatt cggggtgggt gaggcataaa 300
 actttatata tatagagaga gagatttatt aagattaatt g 341

<210> 27002
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-042-Q1-K1-H5
 <400> 27002

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 ttgaaaacc agcccagggc gctgtgggat catggtagat taatgcgccg cgcacgccgc 180
 atatcatgcc atgaacttag ttgaggccaa tctgtgctgc tgaaatcaaa cacttatgaa 240
 cgtttgttct gaacatcact ggaactctcc atttgcttgt atgacatgct tatggttcag 300
 cgagtttaat tccaacgttt ggtc 324

<210> 27003
 <211> 358
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H6

<400> 27003

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tatgctggcc gtgggggatgg tcgttgggcc acgtccgcag gtcgttgcaa tcatgcaagc 180

gatccatcca aaaagtactt gatgccttgt cggggttctc aggctgctga ccagcgtgggt 240

cgcctagtgt gcatgcggtt ttttgacctt ggctacttgc ctattcaggg tgtttgaggg 300

atgaaactat atatatatag agagagagat ttatgacgat taactgacct tgtacagt 358

<210> 27004

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H7

<400> 27004

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ccaagagaca agtgaagggt caacacagga ccggccatat aattagaaga cccaccgggg 120

caacacacac tatgaaaacc caaccgaagg cgctgaggga tcatggtaga ttaaagcgcc 180

gcgcacgccc aatattatgc catgaacata gatgaggcca atctgtgcag cttaaataca 240

acacttatga acgatagttt ttaacattac tggaaca 277

<210> 27005

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H8

<400> 27005

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ccactgctgc ggtccactgc atcccgggtc cgtcttctcg tgccatgcta cggttgcttt 120

ctcccgtcgg cgactgcgca gatttggccg ccgtcgccgc tgaccagggc tgtcttgatg 180

gcgcccgatg cagaagccgc taaggggaca ggcaccgttc cacaaaggtg ctctgccatt 240
gaacgaaagg atactggcat gcatgtccag gaggtctgct gctggacacc cttggcatga 300
tctggagata ggccctggag ctccaaccat attcaactgc gtcattgaga taccagggg 360
cagcaaggtt taatatgaac ttgacaagga aactggactg 400

<210> 27006
<211> 233
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-042-Q1-K1-H9
<400> 27006

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catgacaggc cggctcggct gaaacgtcag cagggccaac acaccaaca accccagcaa 120
gtgccgcatt agcgccgact cgcccagcac ccacacacgg cgactgaccc aagaacaact 180
gatccatgga accacacgag gaagacgctc gaccgctaga cggcaccgta cga 233

<210> 27007
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-043-Q1-K1-A11
<400> 27007

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gcgagctgag cggcacactt ctgagcgagg acgacagcaa gatgaagaag cagatatcgg 120
acctgaaatc caaggagctg agcgccacg acatctttgc tcctccggaa gaccacggc 180
cacgcaactc agagaacggc tcgacctcgc agaccccgga caaaatgca cacgtaagca 240
acttcaagtt cggcgaggcc gacgaggacg gcatggtgaa gaccggaag aagatcccca 300
caaagaaatt caccgacctc gcgggcaata tcttcaaggg cgacgagacc cccctggga 360
cggcgagaaa acacctgagc acagcgaaac tgatggagat gaccggcagc gacatcttcg 420
cggacgggaa agccccctcg cgg 443

<210> 27008

<211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-A12

 <400> 27008

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 cctggcttgc ctttgccgcg tagcagtggc atgagggcgg ggcgggccgaa gatcggcgac 180
 caagcgacca gcgacgtggt agtgcggcta cggacgccgg agggccgcga cgagtggctc 240
 tactgccact ccgcggctct cgccgccggc agcacctact tcgccgaccg cctctccgac 300
 gcctggccga cgtgccagat cctcggctcg cgctactgcg tcgaggtcta ctgccaggag 360
 ctggacctga gtcctatgt cacagcgctt cggctcctat acgccatcga gccctgctcc 420
 catttcggcg ttcgcggcgc gctgggcgtg c 451

<210> 27009
 <211> 200
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-A2

 <400> 27009

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 ccgtgccagc tgctgcacgc ataaatcttg aatgtgctgg ttgagagttt tttagttgct 120
 ctgcaggatt agacaatggt ctaagactac catgttttaa gtctgctgat gctatattca 180
 tgaacgattt tgcagctagc 200

<210> 27010
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-A4

 <400> 27010

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tgacatccta ggtgcagtc tggattccat aaaatcagac aaaggggaatt cattcttgga 120
 tgagatcaag acaacttcaa gtttaaagtt ggttgatttc agaccacaac atcttaagcg 180
 atcaaagttg gacgccttca tgtaggcaca taagttattg ttacctggta agtctgttct 240
 agtccaagtg ttaatatgtg tcttgggtag ttatttggtc tgaagacata cacttgattt 300
 aaatactctg aactattctg atgacagatt accaatgggt gccgtcacc agcagtttag 360
 tttctttgga ccctaatacc caaacgcctt tttgatgtac tg 402

<210> 27011
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-042-Q1-K1-G4
 <400> 27011

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 aactggttgt gtggcttcca gccctgtgca ggaagatgga ggtcccttac tgcattgata 120
 aaggaaaggc tcgccttgga tcgattgttc acaagaagaa tgcacagtc ttgtgtctga 180
 ccactgtcaa gaacgaggat aagcttgagt tcaacaagat c 221

<210> 27012
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-042-Q1-K1-E10
 <400> 27012

cccacgcgtc cgggcctaca tcgaagagct tangataaaa gacggccctt tcgacggact 60
 gatgggttct tcccagggtt ccattctgtc ggcggtgctt ccgggggtcc aagaacaagg 120
 gctggccctg actagagtc cgaagggtcaa gtacctcatc atcatcggtg gcgccaagtt 180
 ccagtcaccg acggtggcca gcaaggcgta cgccaacaag atcgcatgcc cctcgcttca 240
 cttcatcggt gaaaacgact tcctgaaagt ccatggtgaa aagctgatag aatcatgcgt 300
 ggacccattc gtaatcgtc acccaaagg ccacacagtt ccgaggctcg atgacgagaa 360

gttagtggtc atgcaccgtt ttcttgagaa gattgaaggg gaagtacttg agtattcgtc 420
caaagatgtc 430

<210> 27013
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E11

<400> 27013

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ggcgggcgacc gcggtggctc ccccggccgc ggtgcgcgcg gcgatgtcgt gctccaccgt 120
gtacagcacg ctgatgccgt gcctgccgtt cgtccagatg ggcgggggcca tgccgccccca 180
gccgtgctgc ggcggcatcc gcagcctgct gcagcaggcc aacaacaccc ccgaccgccg 240
caccatctgc ggctgcctca agaacgtcgc caacggcgcc aacgggagcg gcacctacat 300
cagccgcgcc gccgcgctgc ccagcaagtg cggcgtcgcc ctgccgtaca agatcagcac 360
caacgttaac tgcaacacga ttaattaaat gaggcgtcct gtgcgcgtcc gggcgaggaa 420
tgcatgcat 429

<210> 27014
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E4

<400> 27014

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tcacagaaat gcttgtgcgg caggctgttc caaggcttta aactttatgg tgctttacat 120
tcctaataaa ccgaattgtg tatatgatgt ttgggaaaat ggtgattttt c 171

<210> 27015
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E5

<400> 27015

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aaaagagcag tcgtgtagca tagttatacc ataatggcat tcgtagccat ttcacgtggt 120

gtcagtgtcg cagtttataa tgtactaggt ctagtgcggt atactgacaa aattgacggt 180

tctgatggaa gaacataacc tgaggaaatt ggcttggaag aagtactcat gagcatgttc 240

tgcaatttgg cgggcactca gactatctcc aattatatcc actatattcc ctctgtaaga 300

aaaaaaatct ttcgtattaa ttacggtgaa attgtgaca 339

<210> 27016

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E6

<400> 27016

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tagaactagg agaggggaaag tgagaagttg tgtagcatag ttataccata atttcattcg 120

tagccatttc agttttgtaa gtgtagcagt ttacaattta ctaggtctag tgcggtatac 180

tgacaaaatt gacggttctg atggaagaac ataacctgag gaaattggct tgttagaagt 240

actcgtgagc atgttctgca atttggcggc cactcagact atcttcaatt atatctgcta 300

tattccttct tt 312

<210> 27017

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E7

<400> 27017

cgccaatagg attcgcatct ccatatgcac tctgggctga ggtgctgata ctcggcaccc 60

gctccttcgt cgggccagcc attgttccag gccacatgat cacattctgg ctctggatta 120

tactccgtca ggtggaggct atcgagacac atagcggctt tgatttccca ttcaccccga 180

caaagtatat tccattctat ggaggagcag aataccatga ctatcatcat tatgtacgag 240

gccagagcca aagcaattct gcttctgatt tcacttactg tgattactta tatggcactg 300
 acaaaggtta cagattccac aaaacatacc tagcaaagct taaggatctg gggcat 356

<210> 27018
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E9

<400> 27018

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 cacgttcacg atcgagacgt cgggtgctgtg ccaccagggg gcgccgggga cgtgcaccaa 120
 cgccacgggc tacgtcttct gggacggctt ccacccaacg gacgccgcca acaagggtgt 180
 cgccgacgcg ctctctctgc agggcctaca gctcatcgcg tgagccacag ccacgcaacg 240
 gcctcccgtc gcccttatac gtaccttgct gcttctgtcg ttcctctctg ctactgtgtc 300
 tcgtgtgctt gtctgtctga ctgtctgtct gtctgtctgt ccatgatctc tcgtagcttt 360
 gtgatgcttg gaaacacttg ggagtgtgtt aagatttctg gtctg 405

<210> 27019
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F1

<400> 27019

gggagaagtt tggactctgc ttttgtttct gaaccgagca gcctaagcat ggcggaatgc 60
 actatcaagt tgctgaatgg tcacaactgg aacacatcat tttagaactg gagccagtac 120
 ccaattaacc aaagcgtaca cgaacaaggg gaacaaagag ctctgggtgca agtagttgtc 180
 ggacacattac atatgaagag tatattattg attgggagct gaagtgttca gtcaggatat 240
 tgtcttggtat tcagcctgta cctatttg 268

<210> 27020
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F12

<400> 27020

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acatgccaga cgatggtgca taaaatggca ccgagggagg aggctctaga gttaaataatg 120
ctgtgatgga tgttcccata accttacctt cgttgaaacc agcttttgac aagcctaacc 180
ccaaacaagg cattggtatg ctgtcatgga gcatcgacag ccaactatttc ttcaccagga 240
atgacaacat gccaaactgtt ctctggatat gggatatatg ccgccttgag cttgccgctg 300
tgctcgtgca taaagatcca atccgtgctg tatcatggga cctacctgc acactccttg 360
ttttatgcac agagagcctt tacttgttca tg 392

<210> 27021

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-042-Q1-K1-F2

<400> 27021

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aggcgggaag gcgaagaagg gcgcggcgagg gcgcaaggcc ggcggggccga cgaagaagtc 120
gggtgctcggg tccgccaggg ccgggctgca gttccccgtc agccgcgctc ggccggtacct 180
caaaaagggc cggtacgcgc agcgtgtagg cacgggtgcc cccgtctacc tcgccgncgt 240
cctggagtac ctgcgggccg aggtgctcga gctcgccggc aacgcggcaa gggacaataa 300
gaagacgcgc atcatccgc gccacgtgct cctcgccata cgcaacga 348

<210> 27022

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F4

<400> 27022

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aaggaagact gtagctgtgc agagatagtg agccctctgg gcgggtggcc gccatacaac 120

ccgcacagct tcagccagtt ggtttgtttt tattctacgc aacaacttcg aatgtcacac 180
cattcacgta tgtttcgacc cacacgacag atccgtcacc caattcagtg ataacgaccg 240
atgccatcaa cattctgttt aggctcttgt tctataaatt tccggagaat ttgatgccaa 300
agagagctgc gcttgacaac ctatctcctg agaacaacaa caacatgaag caaccc 356

<210> 27023
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F5

<400> 27023

cccacgcgtc cgcccacgcg tcctgcgaag tcgacctcc ctcttcgct ccttccccgc 60
cgctccccgg ccgtgcgcgc catggtgaag tactcgagg agccgggcaa ccctaccaag 120
tcggctaagg ccatgggcag ggatctgagg gtccacttca agaacacaag ggagacagcc 180
tttgcgcttc gcaagttgtc ttgaccaag gctaagcgat accttgagga tgttattgct 240
cacaagcagg caattccctt ccggagatac tgtgggggtg ttggtcgac cgcgcaagct 300
aagtctcgcc actccaatgg gcagggccgc tggccgggta aatcagccgg gttcatcctg 360
gatttgctga agaatgctga gagtaacgct gatgtgaaag gctcggatgt ggacaacctc 420
tatatttcac acatccaggt gaaccaagc 449

<210> 27024
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F6

<400> 27024

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gaagacggcg gctgtgcgga gatggggagc cctctgggcg ggtggccgct atacaacccg 120
cacaacttca gccagttggt ccctgccgac ccctccgcgc agccctcgaa tgtcacacca 180
gccacttatg ttgcgaccca caggacagat ccgccacca atcaagtgat aaccacggag 240
gccaggaaca tcctgctgag gcacttgtac cagaaatccg aggagaagct gaggccaaag 300

agagctgcgc cggacaacct agctccggag aacaacaaca acaagaagca gccagggga 360
cctgtgggcg acgttggggg ccagtcgagc gcaagaagct gaagacgcac 410

<210> 27025
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F8

<400> 27025

ggcggttaca agcaaggcag cagcacctga ccagcacgcg acagaggaca catataacca 60
agacccccgg aggccacacg caccctaggc agagacggag gaaaacacca ccagagaaag 120
gagag 125

<210> 27026
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G1

<400> 27026

tcgctccata tgagtatcaa tatgggcaga tgattgtggt agataagatt ttaattgagc 60
tgccaagtat tggcatttgt ccagagacag tgccaaagct gaatgaacgg tgacgatgat 120
gacgatattt tttaaaaaaa aaaaaagaat gtacaaaaga agataac 167

<210> 27027
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G11

<400> 27027

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cgtgccatct gggtttggac atctgacagt gcagggtgaa gatgaggact acgacaatga 120
ggattagtca gggatcatctt ctcatgtgat gcactaacag gactgttctg gtgttgtaaa 180
atgtaaatat agtttgaaat agttgccgca gtttacctgt gattgtctgt cgttttatgc 240

ggttatgtag tctgtgttaa ctttcgttct ccaataattg cttggtagtt gcttttttac 300

<210> 27028

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G12

<400> 27028

ccggccctct cgcccgctcg tctcctgcct ctttccttgg tcggaccacg agagcccccg 60

actgcgttca cctctgcctt ttgttcccc ctgcacgcgt tctctggcgc tcttgtctcg 120

tgcgtgcgac aacaactggg cgaccgccgc cgccgccgcc gccgccctac gccaggtgcg 180

caggtcttcg tcggatcctt cgccagcgag gcgacgagca cctaccaggt gatgcccccg 240

gcttaattga atgggctctc ttctcaccag gactggcgtc ctgccatggc tccaggccaa 300

gatcgttgat cccgtgctgc atgtcatcag aaggggagca gaaccaagc aactggcctt 360

ctttgctgcc cttggtgtca cgattgggat ctttcgata tgtgggacca ct 412

<210> 27029

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G2

<400> 27029

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gagcaatggg tgggtgattag tttgtcacca gtacctcact acctcgtgac agtggtcaca 120

tatttccaag acccctggag gctacacgca ccctcgtcag agatggatgt aaatatctct 180

agagaaagga gaggtctggt tctgattgct gtttacaggt tagagggtgca gcgtatttac 240

aaagagatat aagagttatc acttatcatc agactgcctg gtttgctaaa taaagggtgaa 300

tttagttact agattatgag accctctgtt ttgactgccg ca 342

<210> 27030

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G3

<400> 27030

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tcgccgagtt atgttatcta tctataggat cgggggtaccg tttcgttttg tcaccgtgtt 120
agtggccggt ctacccttgg attaa 145

<210> 27031

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-042-Q1-K1-E1

<400> 27031

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tggtgttacc ttgatagagg ctgccatgca cgggctgcct gttattgcaa caaaaaatgg 120
ggctcctgtt gaaattcatc aggttctgga aaatggtctc cttgttgatc cccatgatca 180
gcatgcaatc gcagatgccc tctataagat gctgtctgaa aagcaatttt ggtcaagatg 240
tcgagagaat ggattaaaaa atatacacca gttttcttgg cctgaacatt gcaagaatta 300
cttgtcaagg atattaactc taagtccaaa acatnctgct ttcgcatgca aag 353

<210> 27032

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B5

<400> 27032

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ctgaaagctt cctcaaggcg gtgctcgca tccattcgc tttcaagaga gtggaagcga 120
tgctgtacat caccaacttc gatttagagg ttgactacct caagacctcc taaaaactc 180
ttgaggcagc atgcgaagag ctacagggca gcaggttgtt ccacaagata ctagacgcgg 240
tcctgaagac gggcaaccgc atgaacaccg gcacgaaccg tgggaacgcc cacgccttta 300

agctggacgc gctcctaagc tagtcgac

328

<210> 27033

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B6

<400> 27033

gccaaagaga aggaggagaa agatcttgtg tctcagcaga acatgtatgc gcaactgctt 60

cctcttgtctc tgcttgcctcc gccaatgccc ggcatgggtg gccctccacc tccgatgggc 120

ggaatgggca tgcttccgat gggcgggatg ggcatgccgc cgatgggccc tgggtccgatg 180

ccagcattcg ggatgccacc aatgggaagc tactgagatg tttttttttg gcagaaagct 240

tagatgatga tttgatatgt tcctgtgtaa gcagaggcgg aaacctcatt ggagttgtag 300

atggttacat tttggaatta atattcttta tgggtaccagg aaatttttgg ccagtgaaaa 360

tctggccaga gt 372

<210> 27034

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B7

<400> 27034

gagatctaga gcgagggtat ggagtgtaaa atgtccacga ggctgcggcg ccgggggtcgt 60

cggtgctcgg ccgcgcggtg gaggaggtgc gctcgccct caacgagcac gccgacgtgg 120

ttgccgacct cttcggtcgc gtctcctccg aagtgcgcac cggcttcgcg cccgccgtcg 180

actccttcgt tggcttcttc cacgccgtcg actggaagga gccttggctg atcagcatatc 240

tatctttcca tgccattctg ctactgggta ccatcatctt gaggagggat atcaatttcc 300

agctcatctt gtcagctcta acatattctg gtgtattcct tggctgaaga ttaaatacgt 360

tcctggcgca aaaactggaa gagctttctt tacccaata ctattttg 408

<210> 27035

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B8

<400> 27035

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ggttcgctta ccacttacc 79

<210> 27036

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B9

<400> 27036

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tttcgggtccc ggcgtgctta tccgcccccg ccggccatgt cgaagcaagg agggaaggcc 120

aagccgctga aggcgccccaa ggccgacaag aaggagtacg acgagacgga tcttgcatat 180

ctgcagaaga agaaagatga ggaaaaagca ctgaaggagc ttaaggccaa ggcacagaat 240

ggcgcgattg ggggctcggg tctgaagaaa agtggaagaa aatgagactg gtcacccgctc 300

tccaatacct agaggatgat aaggcagctg tctatctgtg ttgcgcttca ctaagtgtga 360

ttgtaacagt ggtacctctt gtgatctgtg ttccgcgatg ttgcagttgg ttgcttgatc 420

gaaagatg 428

<210> 27037

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C1

<400> 27037

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atgggcccct aagaccgcag ttacatgcc aagatgcaac catggagaag catacttcaa 120

gcagatgcag attcgatcag ctgatgaacc gatgacaaca atatacaggt gttgcaaaga 180

agaatgccag catgaatgga gagaggactg accatagcat tcgcactttg cttacacttc 240

gctccctgtg cttcttcagt tttagagtgtt gggatgccct gttgcacatg taatgcttct 300
 aaatagcgta tacttaagta caaatttttg gaaatgtatg ttctatacta tggcatccgc 360
 ttttggtgc 370

<210> 27038
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C11

<400> 27038

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 acttaagggg gcatcataag tacctcagaa gaaacctgcc aaggtcgtcc caatgaagga 120
 accggttgaa gagagaaagg atgctgctat gtatttggtg ttattgatgt aaccaatga 179

<210> 27039
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C12

<400> 27039

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 aagcattgca gtatggtgta tacagcgcaa attgtctgaa tgaccccacc acaatgtacc 180
 ccacctttat taaaaataac atctaatacac aactaacad aac 223

<210> 27040
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C2

<400> 27040

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 gcacgcgtac tcgtatagtt gtgttcagtt ctgggtctat agagatatgt agccctgcat 120

tgctcgaaata aatactgtgt ccactcgttc gtg 153

<210> 27041

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C7

<400> 27041

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gctagcatgc agaagttcca aggcaacacc ccggtgtatt tggcccctcc aatcatggca 120

actgggaacc tgccattggt ggtaccaagc cctgcaccac ttgtgcagcc gttccaggcc 180

attcatccca tcatggttcc tgctgcaagc agcgtggtcc caggaaaata catgtgaact 240

tgcatacca atgacaatct ctttctgttg gaagagtcc tggctttccag ttaccctttt 300

ggtttggggt atacgtctga aaggactccg cgattttgcc tggctctgttg attcacttgt 360

cagttgctgg tctgtgtccg tattttaagt tgaagggtt tgcaaccttg tcaatcttca 420

tgctctgtgt gggttttcga aatatcc 447

<210> 27042

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C9

<400> 27042

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aaaaaaaaa gagacaactt taaaaaaaaa acgaggcaaa aaaaaaaca acaaacaaaa 120

aaaaaaaaag aaaaaaaaaa caagccaaaa caagaagaca agaccag 167

<210> 27043

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D10

<400> 27043

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ggccccctgg tgcagagggt gccagatgat ggccccggtg tacgcggact gcgccagcaa 120
gtacccttcc gcggtcttcc tcgaggtcga cgctcgacgaa ctgctggaag tcgcaagat 180
ctacggcgtc catgtgatgc cgaccttctg ctacatcagg aacggcgaga cgctcgagag 240
ctttgctacc gtcgacgagg acgagctccg ggacgccgtc aggaagtacg ccgtcgttgg 300
cactacgacg gctcctgcc 319

<210> 27044
<211> 210
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-042-Q1-K1-D11

<400> 27044
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gctgctctag ctctagccct agctagtagc tagccactcg gtcgtgtagt catcagcctt 120
ctgatcgtea cccatggcca ctgcctaggt ccagaccccg accgtcgtgg ctaccgagga 180
agcgctgtg gtggagaccc cggcttcgtc 210

<210> 27045
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-042-Q1-K1-D12

<400> 27045
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acccccgctg gccgccgcac ccaggcgagg cgaggcaagg cgcgccccga acaacggaac 120
caactgcacc gaccgagtca atcaatccgg cgagtgaccg agtggggtag gttgtgtgcg 180
gcatgacgac cacgcgcgac cgtggcgccg gcggcggtac ggcgtcgagg gtcggtgacg 240
gggacgtcga cctggggcgag ggctgggact ggggcgccat cccgcggctc ctctcctccg 300
cctgcctctt cctctgctcc ggagcagagg ctgttttggt tgctgcgata agactgtaaa 360
gcaactgggt gaactgtcca gaaacttgat caccagggac caaattacca ttggagagcc 420

atTTTtgGagc acaaccacca tcga

444

<210> 27046

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D5

<400> 27046

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tctgaagtcc aagaacggac cattcagctc ctgcatgctg cgcggattta gtggtaaata 120
tacctacaac ggacagcagt tcgatgcgac tgctagacca gaaggagcat tgtatgacaa 180
atgcagggga gagattgcc aaggcatgaa tctcaaggca ccgtgcaagg caaagaactg 240
caccttcggt ggtgtgtgga atggggggagg tggagctggc caaacgaca tctaagtcgc 300
gtcaggtttc tactaccttt gctta 325

<210> 27047

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D6

<400> 27047

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ttggaagttg tggcaaaata ccacgagggtg gttcaatata ttactaacia acaatgtttc 120
gcc 123

<210> 27048

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D7

<400> 27048

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gtcagttttt ggatctgctg caccttcact caaagtgaat cttgtgcaag tgttgggatc 120

tgactctaaa gtcataccta gtgagaacat ggatcttcaa tacgaccttg acaacaatgt 180
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agattttact ttttgtacct ttagctgaga ttgtttttgc tactggttct agttacatat 300
aaagtgtttt tgtctcattt ttttataaaa gtttatatgg cttatatattt ttattttttt 360
tatgtttctc tttttctttt tatattattt ttattttttt tatttttttt tttattttat 420
ttttttattt tttttttttt atttttattt tctttt 456

<210> 27049

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B12

<400> 27049

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agaatcgctg gtaacgcacc tcgaggagga gaatgccgag ttgttgagag aacaggaaga 180
gcggcaccag aagcggctta aagagctctt ggaacgggtg acgccagtca ttctgaggaa 240
aaaaccatca ggagatctta gaagaacgaa ctcaatgcag tggtagattg gagccaagct 300
cagtcgccgt ctctttacag ttattaacat agaatttgcc cctgtatgtc atttttctat 360
ttatatatgc gccaaactaag ttgtagtatc ttagctgaaa tagca 405

<210> 27050

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H3

<400> 27050

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ggactgcagg cactacgggt accgggttcg gcggcctagg accagcaggc atggacacag 180
cggcggcggc ggcggggggc ttgctcctcc tcccagaggc tgggctgtgc gctgccctcg 240

tcgcgctcct cctctccgcc atcgtgctcg cgtgaagcct tcacatgacc tcggaaacaa 300
 caacctactg cctgcatgct agtagtagta gaaagcgctg ccccttttggg aggtgtatgt 360
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<210> 27051

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-H4

<400> 27051

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 acaatttcca ctggatagta ctgtttctgt gaaatagctg aaaagtccat gggaagtctg 180
 tgtaatctt ttttatatat atatcttggg gggggcagaa cagaagcagt caaatatttt 240
 ttttgtgcat atgtgaaatt ccagagttgt ggggtggtgag agataggata caatgctgta 300
 tgtatttcag gaacttctgt aacacgagaa cattcatcat gtgaaaaaaaa tgtaactcaa 360
 tgtgttggcc aaaaaaaaaa acnaatataa t 391

<210> 27052

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H5

<400> 27052

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 tccttgctga gggtcgctg atgaaccttg ggtgtgctac tggccatcct agctttgtca 180
 tgtcctgctc attcactaac caggtcattg cccaacttga actgtggaag gagaagagct 240
 ctggcaagta tgagaagaag gtgtatgtgc tccccaaagca cttgatgag aaggttgctg 300
 ctctccactt gggcaagctt ggtgccaaagc tgaccaagct caccaagtct caggccgact 360
 acatcagcgt gccgatcgag ggtccctaca agcctgcccc ctaccggtac taggcagcca 420

gcacacggct tgcagc

436

<210> 27053

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H6

<400> 27053

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gaagcaaattg tgatgtcggc ggacaagatg atggaggaag caaatgtgac gtcggcagac 120
aagatggaggg aagcaaattgc catgtcggcg gacaagatgg aggaagcaaa tgccacgtcg 180
gcggataaga tggaggaagc agatgccacg tcggcggaca agatggaaga agcagatgcc 240
acgacgtcgg acaagatgga agaagtagat gccacattgc cggaaaagat ggaagaaaca 300
aatgtcacgt tgccagacaa gatggaggaa gcaaattgcca tgtcgccgga caagatggag 360
gagaaaaatt ctgatccgaa agacaagatg gatgaagagt gacgtggtgg tgtaaccagt 420
tttgaaatag cgtttagac 438

<210> 27054

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H7

<400> 27054

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ctgccctctt aacgccatcc gcgagaagta caggcatcaa aagtttgaat gcgtagcgaa 120
cctaacttca ccggagtcc ctcggtcggt cttcagctga cagccaatg gcaccgattg 180
atgagcaacg ttagcagcag ccgtagcagc atgttgcggt aacattattg aagcatacac 240
ttttaccccc caatgtatga ttgggctggg tgtcgctatc gagctgctgt gtaccggcct 300
ggcctttctc gagtgcgaaag tgagatgaaa actgacagag agatggctac ttggcttttc 360
ttcagcatgt ttgacgtaaa aggttcaccc aggtgtaaac aacactgtgt gtaaggcttt 420
ttgctagggc 430

<210> 27055
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-H8

 <400> 27055

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 taagcatctg tgctctgtgc gagcgatatg ctggcatgag cagctgcaat gccttgagac 120
 cctatcttga acgcaaattc cttgtccgag ctcaagatgg ctcacgtata tgacacgtcg 180
 atgagtaaca ttgacgtagc tcatgccaca tgtagcgtca acatggtaga agcatatacc 240
 tctacgtcgg acaatatgaa agaactggat gtcacaatgc c 281

<210> 27056
 <211> 91
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-H9

 <400> 27056

 cctaccacca ccgctcacct cggttgggct ttctcccctc ttccgaacct gcttctcgcg 60
 ccggattcog gattccctct gctctttccc t 91

<210> 27057
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A11

 <400> 27057

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 cgaccagta gacctaacgc gcgcggccca ggccgcgcgg ccgggacgcg acgccggcac 120
 tcacggctcg tccccgcctt ctaccaccgc acgatcgcg gcgggggaga gtccgccac 180
 caccacacag cggggtctta gagaccaagc tacgaccggc agcagcatac ctcttaggca 240
 c 241

<210> 27058
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A12

 <400> 27058

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 atatgaagtt ttttatcatc aacatagcca gctaaactca aatcacaaat tgaattaatc 120
 aatacacaaa aaccccaa at ggaaccctca tctatctaaa ccaataatat ataatactac 180
 ctgaacaagt c 191

<210> 27059
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A2

 <400> 27059

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 ggactttaac tttgggttat gttggaaagt acttgaaaga ctttctctgt ggtaattcta 120
 ggcgtatgtt gctgtgctgg ttggggttta ctggtgaacc agagtttttc tatctccac 180
 tatgaatttg ttacctcaag ttacctggat gttcactaat tttgttgga c 231

<210> 27060
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A3

 <400> 27060

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 attcctctg gggtttccct aacgaaggta gccatggcgg ggagaggtaa ggcgatccgc 120
 tcaggcgccg ccaagaaggc cacgtccagg agtccaagg ctggcctcca gttccctgtg 180
 ggaaggatcg ccaggttcct caaggccggc aagtatgccg agagagtctg cgccggcgcc 240

cctgtctacc tcgctgccgt gctcgagtat cttgctgctg aggttcttga gctggccggc 300
aatgcggcac gtgacaacaa gaagaccgc atcgatatgt gccacattca gctcggcgtc 360
cgcaacgacg aaaagctctt ccgctttgct gggacgggtga ccatcggtag cgggggtgta 420
atgccaaca ttcat 435

<210> 27061
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A4

<400> 27061

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agctagctgc actaaaccta tcgaacgctc tcatggctac gcacagatct cactgaccct 120
gaagactggc cgттаacaga actcacggat ctacccat 158

<210> 27062
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A5

<400> 27062

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cacaaagtgc gctctaaagg atgagcatgt ttatgcatcg gcaaaatgtc aggctgaag 120
ggagcttata ccttttctgg caaatgattg gcacatagta ctcataatta gtcagtggac 180
caaaatgctt gaccatcatg aatgggcaat ggaaatta 218

<210> 27063
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A7

<400> 27063

cccacgcgtc cgccacgcg atttcccact cttacgaaaa aaaaaaaaaa aagagaaaaa 60

aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaagt acaacaaaaa aaaaaaaacc taagaaaata acaaatcaaa aaaaaaaaaa 180
 aataaaataa aaaaaaaaac caaaaaaaa aaaaatgaca cctagaaaaa aacgaaaata 240
 acagaaaaaa cacaaaaata accaaaaaaa aaaaacataa aataaaaaaa acaaattaaa 300
 caaacacat aaaaaacaaa aaaatcaaaa aagaaaaaaa atacaaaaaa ataa 354

<210> 27064
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A8
 <400> 27064

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 tgacgtccac aatcattatt cttatcaggt catgtacct gaagcaattg caatagtatt 120
 ggcacctact gacacaagaa aacatggtat atttcatctc acggatccag gtggcatggg 180
 cgtgatccat gattgtcaag agagaggttt ccctctcac aaggcaccac ttgatgggtc 240
 gccaatatat gagcagtgtc cccatgtgta catggacacc gatataaagt tcgatatgat 300
 tgatctgcga caaagatgac gaagctcacc tttgggttta ttttgcaacc tatacttctc 360
 gcagttaaatt caattgctgc ccttattttt tcttagc 397

<210> 27065
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-A9
 <400> 27065

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 agcaaaatga agacattatt ctctttattg atgaagtgca cacactgatt ggagcaggtg 180
 cagcagaagg tgcgattgat gctgctaata ttttgaagcc agctcttgct agaggtgaac 240
 ttcagtgcatt tgggtgccaca aactggatg agtataggaa gcatatagag aaagatcctg 300

ccttgaaaag aaggtttcaa ccagttaaag ttccagagcc tactgtggat gaaacaatac 360
 agatcttaag aggacttcgt gagagatatg aacttcatca caaactgaga tacacagatg 420
 atgctttaat tgctgctgca cagctgtctt atcagta 457

<210> 27066
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-042-Q1-K1-B10
 <400> 27066

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 ttatacatgg gcggggacat cagagagcta ataatgaaac agaagaggca aggaagaaga 120
 taagaaaatt caaggaatca gcttggaat gtgtttatct cctgtctgga gagcttttat 180
 ctttgtctgt cacatataat gagccttggt tcaccaatac cagatatttt tgggtaggac 240
 caggagaaca ggtctggcct gaccaaaga taaaattgaa acttaaggct gtatatatgt 300
 atgctgctgg attctacaca tattccatat ttgcacttat gttttgggaa acaaggcggt 360
 cagactttgg agtgtcaatg tctcatcatg ttgctactgt tggtctgatt gttctatctt 420
 acgtgttcat att 433

<210> 27067
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-042-Q1-K1-B11
 <400> 27067

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 gccgpcggcg gagaaggccc cggcggggaa gaagcccaag gccgagaagc ggctccctgc 180
 gggcaagtcc gcgggcaagg aggggtggca gaagaagggg aagaagaagg cgaagaagtc 240
 ggtggagacg tacaagatct acatcttcaa ggtgctgaag caggtgcacc cggatattgg 300
 catctcgctc aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagct 360

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gatcca 426

<210> 27068
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H2

<400> 27068

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cgctactcca acggcctcat accaacagac ctcatgctgc ccagcccagc agctcggcgt 120
gaagcagctg cttccgccct acctgggcgt ggacctgagc cccgatgacc ttctcaccgg 180
cgtcagcttc gcgtccggcg ccaccggatt cgaccgcgtg actcccgctg tggtcagcgt 240
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cgccggcgag gccgagacgg cgcggtatcat cgagggcgcg ctgttcctgg tgtgcgccgg 360
caccgacgac gtggccaaca cctacttcac cagcccgctc cgcaacgccg aatacgacat 420
cccgggc 427

<210> 27069
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-040-Q1-K1-G1

<400> 27069

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gagcatggcg cttgtcggca tgagcggctc cggcaagagt accgtgctgt cgctcactct 180
ccgcttctac gaccgatcg ccggaagagt cttgatgat gggaaggaca tcaagaagct 240
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gacgacgatc tacgacaaca tnctgtatgg caaggacggg gccacggaag ccgaggtcgt 360

cgaggcggcc aagctggcga acgcgcactc

390

<210> 27070

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G11

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gggtgtcatc atacaaatta tgctccaaga ccaaaatatt cttctaataa gcatgttggt 120

ccttctttga aagcttccca cagtgcacaa tccacagcag atactgtcaa aggatcatca 180

tcagctctag aaactgtacc aaatgctgcc aatagcagca catcatcaaa ggggtgcaaat 240

aaggcacctg gtgcttccat aacaaaagga tatcttccat ctagcaagtt tgtgatgcac 300

agtaataacc aagcaaaaag cagtgtttat caaagcaaaa gcatcaatct gaaagaaagt 360

ggtagaagct ggcacagcag tgagaagctt aaagccgaga agtagctaaa tggacatggc 420

gattctgaat ctaa 434

<210> 27071

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G12

<400> 27071

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ggcttccgca gacggattta ctgtcatatt caacaaagcc agagatgaga agaaggggtg 120

gaatggtcaa gacacagact caccttccaa ggaccccagg actgagaggg tggagtctta 180

tgctgcaaaa ccaagcacga agaaatggtt ttgttggtgtg acatccagcc ctacgcaatc 240

ctgaggaagg caattgcatg cgctggaaat actgcccctt taattttcta tacatactat 300

ccataagaca ctgtagaggt acccatggct ctctgggctc caggatgggt gtctcataaa 360

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tctgcttgta attctaaa 438

<210> 27072
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-040-Q1-K1-G2

<400> 27072

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 tcttccttct cgcgcgtcgc cagcaccagg ggcgcgctt ccccaggcc ctgcgcgctc 180
 gccaccctcg ccagcgccgg cgccggcgcc cgctcccgcg cgctccgtgc tggccacacg 240
 gactcaatcc ttgaggtgct ggcacaggac gatatgctga acgcaaagga gctggtccaa 300
 tgggagaatg gcttgtcatt caatgacata gcggctaggc aggggattcg catccgcaga 360
 cacttgccgc ccactgcctn cttgaaagag atagaggagg agctgggagc ccnccttaac 420
 atcctagaga agatcatttg ggac 444

<210> 27073
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-040-Q1-K1-G3

<400> 27073

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 cagaagctgc tgatgttgca aaatctcagt tcctggcaac tgtgtcacat gagatcagaa 180
 cacctatgaa tggcgtcctt ggaatgctgg atatgctttt aggaacagat ctaactatga 240
 cacagaagga ttatgctcaa actgctcaaa tgtgtggcag agcattgatt aactgataa 300
 atgatgtcct tgatcgagca aagattgagg ctggaaagtt agagcttgaa gcggtgcctt 360
 ttgacctgcg ttctctcatg gatgatgttn gttacttggt ttcttcaaag tcacgggaga 420
 agtgcattga g 431

<210> 27074
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G4

<400> 27074

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tgccggcatt cagggaacga gccgccctgc tcactaccat gtcctgtggg acgagaacaa  180
gttcacagct gacgagctgc agaccctgac gaacaacctg tgctacacgt acgctagggtg  240
caccgcctcc gtgtccatcg tgccccgggc gtactacgct catctggcag ccttccgagc  300
tcgctttctac atggagccag acacctctga cagcgggtca ctggccagcg gtgcccgtgg  360
ccccccaccc ggtgcggcac gcagcagcac gagaagggcc gggagtgtcg aagtcaggcc  420
cctacctgct ctcaggagaa cgtga                                           445
  
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<210> 27075
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G5

<400> 27075

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ccacgcgttc ggtggctgat ttagctgcgc ggcatttagt tccggtggcg ggcgaggccc   60
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gtcggcatga gcggctccgg caagagtacc gtgctgtcgc tcattctccg cttctacgac  180
ccgatcgccg gaagagtctt gatcgatggg aacgacatca agaagcttaa gctcaagtgt  240
ctcaagaaac acatcggcct ggtccagcaa gatccggcgc tggtcgcgac gacgatctac  300
gacaacatac tgtatggcaa gga                                           323
  
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<210> 27076
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G6

<400> 27076

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aagggtcaaa tggatgccat tccattcatt tcgtttccaa gggttcagctt ccccgcaaat 180
tttcattgtg ttttctccga gatgaatgtt tgtgttcggt gaaatcagag tcgtcagtca 240
tctacatagc ttttcttggg tgatagactg ttattttaag tcgcatgttt atctgggatg 300
gctgggggtca gcatgtttgt acaattatgt ggagttgctt ttggaatgga cgcggtttga 360
tgagttgcct acagcatgag atgtcaaa 388

<210> 27077

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G9

<400> 27077

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attgcctggg tctccatttg ggaggaatcc ggggaaaacc ctgacttgat gatgaccccg 120
gaaatcagag ctcagaatgc cacaatttat tatgttgctt ttaaggtatt agtagatagt 180
aactatattg tattgatcta tcgaggctgc agcttgcttg taaacacaac tttccagctt 240
gtataatgga tcaacggatc acctgatatg tgacgggtggc cgaagtacta cgaactctaa 300
tgacgttgga acggtaagga tattgtgatg gcctgttagt ttatgggagg tgtactgttt 360
ggcattgatc tcgatgtaaa caaacaatgt tagccttgcc ccatggggaa gattaagcga 420
gcaggatgtt a 431

<210> 27078

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H1

<400> 27078

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 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaga 180
 aaataaaaaa tatgaaatat aataattgaa atacatggaa aaactattat gaaaaagcta 240
 ttactatgaa aaacaaagat tatgctaaaa aaagcatcat atgtatagca caaacattta 300
 ttacactgat aataagtatg taatag 326

<210> 27079
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H11

<400> 27079

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 ctttggtgcc cataaacttg tgatgatggc tggcctgcat ggcattctat tcagggtcag 180
 ttttgaccat tcgaatggag ggcagatggt gccacatgaa catttgcggc ttctcaagtg 240
 cgacagccca cctttcatga ctgcagccga ttgacctgct gcacgtggat catccatccg 300
 accatgtaaa tgtcgacatg ccactgtaca tatacgctgt ctaccggcta agttataggc 360
 agacggaata aggatagctg 380

<210> 27080
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H12

<400> 27080

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 agccatgaaa cccctcagc tgccggcagg ggagggggcc tcttgggctc acgaggtcaa 120
 gcaggccctc cgtgagaaac tccggcgctc ctacggcgcc ggagctgctt tcgccacacc 180
 ggaggccagg ccggccggcg aaccaagccg tggcgctgag tgccgagggt cggcgggccga 240

ggaccccata aggagagtca tgttcttggc tccctgggggt cacacataag aacacaaacc 300
 ggccggccga gatctgggca tgcaagcttg catggccatg tcttggtcag tcagatctgc 360
 aaacaaccaa actgtaaaaa agaactggag cctgtcttga aatcatggag ctgctgctgc 420
 ttgacccatg 430

<210> 27081
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-F9
 <400> 27081

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 tcagaaagag tttcctgtgt gagccctccg gtccaaggca ttagagcttc catggaagga 120
 agcagcacac tagcaagccg agtgactgca cctgtggtca tggaaatgga attggaacc 180
 agtagcgttt tgtatttgcc tgttgattct tatatttatt tttaggaagt gggggaatgt 240
 gtagcaacta ggaagcgagg gaacaacatc cagttgatgt gaagcattca tggcacagta 300
 ggcaatagtg gcaaaggggt actatacata cacacttacg ggacgcacaa catatataaa 360
 gaatggttga ttaataaact atctattttg gggacacacc cctaa 405

<210> 27082
 <211> 266
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-E4
 <400> 27082

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 acttggcact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180
 aaaaaataaa aaaaaagaa acaaaaaaaaaa aaaaataaaa aaactaata tataaaatac 240
 aaaaatagaa aatctactaa taaaaa 266

<210> 27083

<211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-E5

 <400> 27083

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 aaccatatat ggtgttttaa gtgtttcgac atgtttactt ccagtgtttc tataacatta 120
 ttgagacaga tatggagtgt actttgaggt agttttctgca attcaagtta tttggggatt 180
 aataaatgat tttaccagag cttcatcagt gtaaagacgg agttcatata tcagaagcct 240
 tatggagttc aagaacggga caaccgcagc ggaaataaccg tgcttttgtc aaaatg 296

<210> 27084
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-E6

 <400> 27084

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 ttggtggggg aacaggtctt ggccttggtt ccctcctcct agagcgcctg tctgttgact 120
 acggcaagaa gtccaagctt gggttcactg tgtacccttc cccccaagtt tctacttcgg 180
 tagttgagcc atacaacagt gtactgtcca cccactccct cctcgagcac actgatgtgg 240
 ctatactgct ggacaatgag gccatctacg acatttgccg ccgatccctt gacattgagc 300
 gccaaccta caccaacctc aacaggcttg tgtcccaggt tatctcatcc cttactgcct 360
 ccctgaggtt cgatgggtgct ctgaacgtgg atgttaacga gttccagacc aacctggtac 420
 cctacccgag gatccac 437

<210> 27085
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-E9

 <400> 27085

attggtgtgg gcaccaaacc tcaagaacag actcaagacc caaacaatct gcagaggcaa 60
 caacagtcca tgaaccaact acttccattg agccaatctc aaaccaatct tgtccagggt 120
 caggtcctta tccagaatca aatgcagcag caacagcaac caacatccat ggctcaaaat 180
 cagcagccag ctgccagcca gtcactgatc ctgccccagc agcagcaaca acagcaacaa 240
 catcaacaac aaaagttggt acatcaacag cagcagattt tactgcagca gcaacaattg 300
 cagcaacagc aacaaaatca gcaacagcta aataagatgg ctgcacaaat gccaaatctg 360
 gtatcacatc agccgcaact gtctgatcag cagcttcaac tgcaactgtt acaaaaactg 420
 caacagcagc agc 433

<210> 27086
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-F1
 <400> 27086

gaatttctgc aagcagttat gaaggccagc gacaaaaagt ttcagattgg tgtacagtca 60
 gatccagtgg aatttatgac atgggtctta aacacactgc atgcgaaact aaaaagttca 120
 aagaagaaaa acagaagcat aatacacgat tgttttcagg gagaacttga agttgttaag 180
 gaggttcata ggaagcatat aatggaaaaa agagaggatg gcggtgagct gaatggtgag 240
 gcaggttcag tgggtgggaac tgcagatgga attgttactg aaacatccaa ggtcccatc 300
 ctgatgctcg gtcttgacct gccaccttca cctcttttca aagacgccat ggagaaaaat 360
 atcattccac aggtaccatt gtttaacata ctgaagaagt tcgatggtga gacagttaca 420
 g 421

<210> 27087
 <211> 238
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-F10
 <400> 27087

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ggtgagccct acgctccaag gcattagatc ttccatggaa agaagcagca cactaacaag 120
cagcgtgtct gcacctgtcg tcacggaaat ggaattgtaa accattaacc ttcagaattt 180
ctccatcgct actaatactc atgtttacgc aacagtggaa tgtgtgatac ctaataaa 238

<210> 27088

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F11

<400> 27088

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gggttcgggtt tcgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc 120
ttcgtcggcg gctcgcctg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
tacggcgagg tcctcgagtc caagattatc ctcgatcggg agacgcagag gtcccgcggc 240
ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300
ggcaaggagc tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt 360
ggatgctgcg gcggcggcta ctgtggtggc cgtgg 395

<210> 27089

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F12

<400> 27089

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gggcggcggt ggcgcggcgc tgctgctggt gatgtggcg ggcgtggcgt cggcggccgt 120
gtacgagggtg ggcggcacca ttgggtggac cgtcatgggc aaccccgact acgccgcctg 180
ggccagctcc aagcagatcg tcgtcggcga cactgttgtg ttcacgtata acaagcagtt 240
ccacaacgtg ctggcgggtga gcaaggcggc ctacaagaac tgcacgcca ccaagccgac 300
ggccacctgg tccacgggga acgattccgt cgctctcaac accacgggcc accactactt 360
cctctgcggc taccggggcc actgcgctgc cggccagaag gtggacatcc gcg 413

<210> 27090
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F2

<400> 27090

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 gttgctatac catgtatatg cccgtttata gtcgcactgg atgatggtgc acaaacagtt 120
 cagggtggagc tggtagcctg tcccgcacatt tgcaccttac aaagtctaag gcttgttcta 180
 cacattgatc cttgctatgt gtggtcacgc tcagacgaca gcaactgctt tagtggtctt 240
 gcagagtctg acaccggatg cacagagcgt attgagactg cttgatgagt attcagattc 300
 ataatgcaag gacgagagct tgccagtcaa catgtttgta tacgaaatgg tcg 353

<210> 27091
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F3

<400> 27091

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 cgagataata agcagcgcgc gaagatgcaa gactgggcgc cgggtgttcgt ctgctggtg 180
 ctcttcattc tgcgtgcgc gggcctgctg ttccagatgc cgggcaagtg ccgcatcatc 240
 gagttcggca acttcagac cagcgccatc tccatcctcg tccacgccat cctcttcttc 300
 gccctcgccg gcattctctt cgtcgccgct ggggtgcaca tgtacctcgg ctcttaggcg 360
 gcgcgggcgc gccgtacctt ctcttctctt ctatctctct ctgctgcac gcgcgccatc 420
 cgtctcttct tttat 435

<210> 27092
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F4

<400> 27092

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cttgctgggc ttgcagctgg catggccatc ggcattgttg gtgatgctgg agtcagggcg 120
aatgcacaac agccgaagct ttttgtgggc atgatactca tcctcatttt cgcagaagcg 180
cttgctctgt acggtctcat tgttgaatt atcctttcat cccgtgctgg tcaatcccgg 240
gcagattaag tgcactacca ttctgcaatt accgtactgt ttattatgct attctaagag 300
aattgaaacc ctatgccctt gtctagttaa ttcttgctac catgtattaa tgaaacaatt 360
tgtagctgaa ggaaagtgc acttccagcc atgttggttt tggcgggtgt aagcagaggt 420
tatttattgg gttaagggtg gagg 444

<210> 27093

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F5

<400> 27093

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cgggcgccgc ggccctcgcg cagcgccacc gccagaaac catctttccc ggccgcgccg 120
ctgagcccat agcccatatc ggggctcgt tcggccgaag cgcgctgtgt caaatctctg 180
cgaccttgcc gccgccgtca tcattctgga gctcggattg atttcttctt ttgctgtgct 240
gtcattaccg aactaaaaac agtttctgag agcaagcgtc acaattgcca tggaagctgg 300
gagaatggat cagccttgca tggttctat caatagccag cctttcgtgg ctgatactga 360
gccagtgaag aaagccagtg gggacatgcc t 391

<210> 27094

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F6

<400> 27094

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 gctgagcttt attatgaaca aaacgtgctg gaggtggaac ctgagattct cccggacatc 120
 agttggcgtc tctctagttc agtagatggt aaagctaaga ttgctgaagg ccgtcttacc 180
 gatgatgagc ttgaccagta ccattctttg gagaacaatc caattattat tgagctgata 240
 gacgagccag cgatcccga tctggtagtg tattgaagaa tctgcgccag ctggacagaa 300
 agctctgctt ccttgctgct tgctctggaa tctggagttg cctagtctag aatgctagta 360
 agtcttgacc ctggtgttgt cccaactat gttctgatga tgtaggattt caggccgagt 420
 actggtacca g 431

<210> 27095
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-F7
 <400> 27095

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 tacataaacg ctattgcttt taccgactga cacggaaggg tggagatcat gcatcaatgc 180
 tattgctttt acaacctgac acagaagggt gtcattgttt tttgtaggag ttgccatctg 240
 aactggagag ctacataggg gataggttct gatcggaatg tgaatggcac tagaaaatta 300
 cttttactgt atctgcttgt gttgtcaaga accgaatgag gtgcctggca tccttgtctg 360
 taccctgtac actaaaatgt ggagaatgtt ccctcggcag taatcggctg gacttgtaag 420
 gtgccagtgt 430

<210> 27096
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-F8
 <400> 27096

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tgtgttctgt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaata atataacaaa 180
 aaaaataaaa aaaaaaaaaa ctaaaaataa caaatacaaa aactctacaa acataataga 240
 ttacactaat ttatagattt gcataaccta tacttttctgc tctgaactaa aatcccatta 300
 aaacagcaaa cttactgatt aatcaa 326

<210> 27097

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E3

<400> 27097

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 tcctgttggt gaagacatgt tccactggca ggcaacaata atgggtccat ctgatagccc 180
 atattctggt ggagttttcc tagtcacaat ccattttcct cctgattatc ctttcaaacc 240
 accaaagggtg gcatttcgta ctaaagtgtt ccatccaaac atcaacagca acgggagcat 300
 ttgcctcgac atcttgaagg accagtggag tccggcacta acaatctcca aggtgctgct 360
 gtccatctgc tcctgtctga ctgatccgaa ccccgacgac cctttgttcc ccgagatagc 420
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<210> 27098

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D1

<400> 27098

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 agcttgatga gctgagctcc ccacttacct tcattctcaa cacctcatca gaccgccttg 120
 cgaagctgaa gcggatcagc aactcgacca cagcgaggta taggcttctc catgaggtgt 180
 ggaagctgga tgaccagtag gacttgatcc taccaccacc atggttctcc cctctgtata 240

taggtttgtt tttttgcata tgattccggc tcatgtataa gatttcagtc tatttgttat 300
gttatgttac aagaagatga ggggcaagcg ttgaatctta ataaatccgc tgtgtct 357

<210> 27099
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D10

<400> 27099

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agtaccgctg cttcgtcggc ggcctcgctt gggccacgga cgaccactcc ctccacaacg 180
ccttcagcac ctacggcgag gtcctcgagt ccaagattat cctcgatcgg gagacgcaga 240
gggtcccgcgg cttcggcttc gtcaccttct ccacggagga ggcgatgcgg aacgccatcg 300
agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacgag gccaggtccc 360
gcggcgggcg tggaggcggc ggc 383

<210> 27100
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D11

<400> 27100

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agaccagcga tgtcaaagct gtgtgccttt cgcacccgta cagcgtcact gccgacgaca 180
tgaaagggtgc agtgagctgc agtgtgctcc tcctcttctt ctatgctgct tcactagcct 240
caccgcatgt gttcgttcga aatcgaaaca gaggtgaaat ggccgatcga gatcctgggg 300
gcccagaacg acacgaccac gccgtcgaaa gaagtgtacc ggttcgtgca tgtgctgcgt 360
gaaagacacg aggtgagctc caagctacga ctgattgcaa tgacactgtg tggatcggat 420
accggccag 429

<210> 27101
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-D12

 <400> 27101

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 gcgccgatcg atacgatggc cgtcttctcc gacctccaca ccggcgacgg cctcaagtcc 120
 ctagaggctc acctcgccgg caaacctat gtgtctggtg actccattac taaggatgac 180
 attaaggtct tcgccgcggt gccgtcgaag cctggcgctg agtttcctaa tgcttgcgcg 240
 tggtagcaga ccgtctctgc ggctgtagcc tcaagattcc ctggttaaggc tgttggtgta 300
 aatctgcctg cgggatcagc tcttgccgca gctgctcctg cggatgaggc tgacgacgat 360
 gatgaccttg atctttctgg tgatgaaact gaggaggaca tgaaagcagc tgat 414

<210> 27102
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-D2

 <400> 27102

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 ttcaccacct gcttttttgt catctgtgta cattgagtcg acggacaatc attttcttgc 180
 ttcgagcagg cgagagcagc acacgagttg cagacacaac atggaattac actctgtata 240
 taggtttgag tttttgcata tgaaatgcag ctcatgtata agatttcagt ctatactgct 300
 atgatatgtt acaagaatat gaggggacct cgttgaatct taataaa 347

<210> 27103
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-D3

<400> 27103

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gttttgggag cagatgctga gagcagggtg gcagagcgac cacggctgaa tctgaagcct 180

cgttcctatg taacaggaca gtctgatgaa attgctgtca aggaaaggcc atctctcttt 240

ggtggtgctc gcccagggg acaagttctc aaagaacgtg gagtggatgt tttggccagt 300

gatctcgaga agacttcacc agttggcaag cctaaaggcg aatttgcaaa ggttgagcag 360

aaggttgaag ctatgtccat taacccttct gttgaaagac atgagaagtt tgcagctggt 420

cat 423

<210> 27104

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D4

<400> 27104

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cggcgagcca tggcgggggc tctcctctcc tctccgcaca ctctcccag cccacatct 180

cagtccccgt tccgccccag gagcagggga ccaactccacg ctggggcagc gcgtgttctg 240

ccaccgagga ggagggcctt tgtgctcgct tcgtgctctc gcgagcctgc cgtaggaac 300

cgcgggttgg aggtggagag gaggcgcctt ctcatgtccg ggctcgtgct ttctttcgca 360

atcatgctcc ccatttcaga agcatatgct gtcattggaga ctgatgaaga cgtgaagatg 420

aacacacaaa ttgatgagat 440

<210> 27105

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D6

<400> 27105

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 caacttcgag atcgaggcga gccccgatgc gtcggttgct gacgtgaaga ggatcattga 120
 gaccactcag ggtcagagta cctaccgggc ggaccagcaa atgcttatat accaagggaa 180
 aattctcaag gatgagacca ctttggaaag caacggagtt gctgagaaca gcttccttgt 240
 tataatgttg tccaaggcta aggcacgctc gaggggagct tctaccacta ctgctgcaaa 300
 agctcctgca actctggccc aacctgctgc cccgggtgcc cctgctgcat cagttgcaag 360
 aacaccaaca caggctcctg ttgccacagc tgaaacggca cttcaagtg cccaacctca 420
 ggctgctcca gctgctacgg t 441

<210> 27106
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-D8
 <400> 27106

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 gcgatatttg ggaaaccgtc tccggcagcg atcttgtgtc gctgctgata tccgatgctg 120
 cacaggctga caactatgag aagatcttct ctcacatgaa accaaacagt atccttggtt 180
 tatctcatgg atttcttctg ggacatttgc aatcactcgg actcgattta ccaaagaaca 240
 tcagtgtgat tgctgtatgc cccaagggaa tgggtccatc cgtccgcagg ctttatgttc 300
 agggcaagga agtcaatggc gctggcatca actctagctt tgctgtgcac caggatgttg 360
 atggaagggc aactgatgtt gcttttagcat ggtcagttgc acttggttcc cccttcacgt 420
 ttgctactac tttggaaca 439

<210> 27107
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-D9
 <400> 27107

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ggcttgaggt ccttagctct acacttactg tactctagaa cagccgataa taccttgact 120
 gctaagatcc atcgcttctg ctctcctcta ctatgagaca ctctcttgaa catcacgtct 180
 taatcctaga tgaccgtaa gaccagtga catctccacc atggttctcc actctttata 240
 tctgtacta gtaccgata tcattctggc tcattgcatta gagatcatgc tacttgcaac 300
 cttctgttgc aagctgataa ggtgctcacg tcgaatctca acttatccac tgttttttaa 360
 attattctag cta 373

<210> 27108
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-E1

<400> 27108
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 ttcgctgagc catacctcct cccaacaatg tcagcaaaac catcgccacc gctcatcatc 120
 gacaaggaga cgatcccgat gggggactca cgccagaaga ctaaaacgct gaacagcagc 180
 accaggacat aatagagtgg acctctcagc aattcctctg gttttccttc acgtgtcact 240
 gattttacca gagcttcac agtgtagaga cggagtccat atatcagaag cctcatggag 300
 ttcaggaacg ggacaaccgc ggcgaaatac cgtgcttctg tcgaattgct gaacaggggc 360
 caagatgaca tgaacaggac gccggatagc acgtgcacaa cttttctgct caagctcttt 420
 tcgatg 426

<210> 27109
 <211> 196
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-E10

<400> 27109
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 atgaagccag ggaagaaata aaataaagct agctgtattg ccaggagcag catgcagtat 120
 cgatctatat atatactgta ctgtagtact ctattatata tgtatgtgtg gcctgcagtg 180

cgagttgctt cgatcc

196

<210> 27110

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E11

<400> 27110

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gtctggcgcc ctccaaacca gccactctcg agaattccag ggcagtctcc gctatagtcc 120

accggactgt ctggtgtgcc accggaccgt ccggtgagcc agcggagcaa cggctaactg 180

tcgccaatgg tcgactgcaa aagcgttctg cagtaaacag tgcctcaaca gaagtcagag 240

cacagaagtt agagggcact gaactgtccg gtgcagctag aagacaaaca tctccaacgg 300

tcaactgctc cgaaccctaa cagttgcgct gacgtggcgc gcaccggaca atgcacagtg 360

gatgtctggt gcgcccacgc ccagcagcct ttgctaacgg ctaggaagtg gttgggggct 420

at 422

<210> 27111

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-E12

<400> 27111

cccactcggt cgcccacgcg ttcgcccact cgtccgtcca cgcgttcgag ttgctgagct 60

agttcagaag gttgccgctg ccattcaaca agatttgccc aaagtaatga ccaagatgag 120

gttggtatttg caaaatccat ctactcggat gatcttattc aaacctatca agacaaatat 180

agttgaggct catatacagc tgcattccct tctgaagtcg gagtactcta gtgaagaaat 240

gcaatccatc ggtatgttgc cgatacctga cctgcagtct cagcttgaca gccttttgta 300

gtttgcatac accatacagc ggcgctgctg tagtccatgt tgacgttgca atgcagttct 360

ttcaagtaac gcaagtaaag ntgttaccac aattt 395

<210> 27112
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-E2

 <400> 27112

 cggacgcgtg ggcggacgcg tgggcggttt caggatatgtg gctcccgagt atgccaatgg 60
 aggtctgtta aatgagaaga gcgatgtcta cagttttggg gtgctactac tggagcagc 120
 gactgggagg gatccagttg actatggtcg gcctgctaata gaggttcacg tggaggagtg 180
 gctgaaaatg atggttggca ctagaagagc cgaggaggtg gtggatcctg acatggagtt 240
 gaaaccagcg attcgtgctc tgaagcgtgc tcttctagtg gcactgcatg gtgtagaccc 300
 agatgctgag aaaaggccca ctatgggtca ggttggttcg atgctcgagg cagaagacgt 360
 gccttcacgg gaggaccgcc ggagccggag aggccacagc agccacgcag acaacgag 418

<210> 27113
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C9

 <400> 27113

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 gcgtgcggcg atggcgctgt tctcggaggc tcccccgagg aaccgaaag ccggcgagaa 120
 gatctttaag accaagtgcg cgcagtgcc aacggctgac aagggcgccg gccacaagca 180
 aggtccaaac ttgaacggtc tttttgggag acagtcgggt accactgcag gctactccta 240
 ctctgcgggt aacaaaaaca aggctgtagt ctgggaagaa gacactttgt atgagtacct 300
 gcttaaccct aagaagtaca ttccctggaac caagatggtc ttccctgggc tgaagaagcc 360
 gcatgagcgt gctgatctca tcgctacat gaaggaagca actgcatagt tcattgacat 420

<210> 27114
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-B3

<400> 27114

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atccacattt atggtgccat aacctcccct tggcccaata gcatttgggc ctttgcatta 120

atgccgccat caaaggttac cataagcgat agcaagcatc ccggctggta catgtaagtc 180

taactgtcag tttagctatc tcgtgtgtag ctccctgagt ttacaacat tagtcgattt 240

taccgggagt tgcaatacca tcatgtgtca cattgtttgt cc 282

<210> 27115

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-B4

<400> 27115

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ttgcccctcc ggaggatccc aggccacgca actcggagaa cggtctgacc tcgcagactc 120

cgggcaaaaa tgcacacgta agcaacttca agttcggcga ggccgacgag gacagcgcg 180

tgaagaccgc gaagaagatc cccaccaaga agttcaccga cctcgcgggc aatatcttca 240

agggcgacga cgaggcaccg gggacggcgg agaagcacca cctgagcacg gcgaagctga 300

aggagatgac cggcagcgac atcttcgcgg acggggaggc cccctcccgg gactacctgg 360

gcgggatccg caagccgncc ggcggggaga gcagcatcgc gctggtttaa cagcagggac 420

aaacaaccag atggacatag cag 443

<210> 27116

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B5

<400> 27116

aaaaaaaaa aaaaaaaaaa aaaaaaaat ataaaaaaaa aaaaaaaaag acaaacggta 60

ggggatctcc aggctcccgg cctcctgcct cctacatgct acgctcttct atattgtatc 120

ctgacaccaa tatactgtcc gctggtcgac aacgtacaac actgggaaat ccctaaacct 180
tccca 185

<210> 27117
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B6

<400> 27117

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gctggctgag ttatcagtgg aacgtcttgc agatcttggg gctgatgatt ctggagtcta 120
tgtccttctg tcaaatatct atgctgatga aggaatgtgg ggtgatgttt tgaggattag 180
gaaattgatg agtgatgagg gaatgagaaa ggatattgga cggagtgtga ttgaagtgga 240
tggtgaaata catgagttcg tgaatggagt cggctcatat attggttaagg atgaaatgta 300
cttgatgctg tggaatttgt ctaacatggg ggcattctatt tgatgctact ttgtctacca 360
aaacaaagta ctaatcctct agattaaaac cttacaaaat taataac 407

<210> 27118
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B7

<400> 27118

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atactccgag aaataaagga gttttggcgg gtggcgctgc ttctatccat tctcttctac 120
cgagaaactg aaaccgctgc tggcaccctc aacgagcatg acgagctgcg tcggaggaaa 180
gagaaatata tcagagtcga gcgttcata accgagctag atcttgacgg ggtatggaag 240
ctgaagccga tactcgacgg gaaatcgatt atgggagtcg tgcaagtcaa gtccggaggt 300
ccactgatag gaaaatggca acaacgtgtg ctgaagtggc agcttgcgca tccggacgga 360
accgtggacg agtgcgctga gtggatgaag cagtcgcagt caaaacgaca gaaagtggag 420
tc 422

<210> 27119
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-B8

 <400> 27119

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 ttatgtcctc ttgattgcaa tttgttagta tgtgttttct tgaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaataaaaa aaaaaaaaaa cctaaataca attaactaac aaaaaaatat acaacgtaat 240
 gaactaggaa aaccctgcta aaaacccaac ttaatcac 278

<210> 27120
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C1

 <400> 27120

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 ctgctgtctt aatcgaccaa caccctttgt gggcttagcg ttcaagagga aatggcagaa 120
 caagaggaag gagcagggga aaccgtgtga cagacccaac atcgtcaccg gtgccaacgt 180
 tcaggctctgc tgggagaagt tcgcaaggta ttttgagggtg gagctgaagg aggttaagct 240
 atcagaaggg tactacgtca tggaccccggt caaggctgtt gagatggtgg atgagaacac 300
 tatctgtgtc gcggcgatct tggggtcgac tctcaccgga gagttcgaag atgtcaagca 360
 gttgaacgac cttcttacag acaagaacaa ggaactgggt gggacgtgcc tattcacg 418

<210> 27121
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C10

 <400> 27121

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 gtagggatgg cggaggcggc gccatggcga ggggcgtagc gcgggcgggtg tctttcgggc 120
 gccgtgccac aacggggtgg tgctcctacc ggcgcgtcac cgtggccgctc tgcacggca 180
 accttgctgc cgtgctgctc gtgctccgtt ccctcacgtt ccccgcttcc ttgcaccca 240
 ccgctcccaa ccgcggggaa gtggtgcagt acacggagga gcagattagg tgggtggagg 300
 agtcgatccg gattcgccgc gaggtgagc ccgtcgagct cgttctggcg gtaaagaagc 360
 tgcggaagaa actcgcccag gaggtgaagc ggcgggagga gctgtcgctg gtgctgaagc 420
 a 421

<210> 27122
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-C11
 <400> 27122

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 cggatgcggg gggagagccg catcatggac cacgaggacg gcccttcaa cccggagaag 120
 gtctcatgg cggtaagac gtactggacc gccgaagccg aggaggagca ctagcacacg 180
 agtgacaccg agctcacttg aaagcgtgaa ccaagcctgt tctacacttc tactaccggt 240
 cgagagggat ggcgtcagcg ttttgogtct cagtgtagta tgtatgtccc ttttcacctt 300
 ttctctagtt cttttagct agctacaatc agatgggaag gtaagggaga gttttgagac 360
 gggggggggg gggttgttgg tcctctagtt gagatacagg aagcggtttt gtagcagggg 420
 aagg 424

<210> 27123
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-C12
 <400> 27123

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aatacaagat atcaagaaat tggttctgca agcactgcga agcaaagagc aagcactgca 120
acaccaggat actgatttga actcaagagg cagctttata ctgaaacgta tggaggccta 180
caaggacttt gctcgctgga gcgtaacat tgacttcgac gagagcatcc ttgtttggca 240
cattgcaacc gaggtgttca tcaggaaatc caaggccaga catgcaaaag aactccttga 300
ggctactgag gtactatcca actacttgat gttcttgcag gaggtgagat gtatgttatg 360
ccgcgcagcg cctggtagca tgttaggttt tacgttctag atcgc 405

<210> 27124
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C2

<400> 27124
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agtagaggat gcgtgaggtc ccagcgtcta cggcaccatt gaagcccctg gggcacagca 120
gatcaggttc tgtgggggca cttagtgtgt tttgtttcct tgaaaatgta aattttatgt 180
ggtggcatgt tctcctgtat agtgagtatt gctattgtgc acagaattgg ggcatgaagc 240
gtttcttgtc tgtgtttata aaatattctt caaacatatt gtcataaaa actactcaaa 300
gtaagaatca aattgagtac aaaactactc aaagtaagaa aaatacgaag atgttaagca 360
attgaaca 368

<210> 27125
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C3

<400> 27125
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ttgctatata actttagtgc ctatcattaa aaatatagtt tgtctacttc gatagcaacg 120
gtatcaaaat ctgactacct tatgaagttt ggagttctct catttctttt ggtagtgag 180
ggaacttgta gggggttcct ttttaagaat tgtcccagaa gtttcttgcc ataaagctag 240

gtgtatgttt caatttccct ggttctttga tgactagata tttttatttc aatgcaaaca 300
 ggtagaattc cgaacttcat tttcagcaaa atgtgtacaa gcaagcagca ttctgcctga 360
 actttctatc acgtactcca acaagaacat ct 392

<210> 27126
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-C5
 <400> 27126

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 cgccggtgga cgcgcacata cacgcggtag ctctcttctc aagcctagct agcccatcc 120
 tgccgcgagg cggcggcagc gagaattgac gtgcgacgac gagcttgtgc ttgctagcta 180
 gagagcgagg atgtcgagcc ggaggccgctc gtcgcgtggc aacatctccg aggacgagat 240
 caacgagctc atctccaagc tgcagggcct gctcccagc tcccgcgcgc ggggtccgg 300
 ccaggcgctc acgacgaagc tgctcaagga gacctgcagc tacatcaaga gctgcaccg 360
 ggaggtggac gacctgagcg accggctgtc cgacctcatg gccaccatgg accacaaca 419

<210> 27127
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-C7
 <400> 27127

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 atgtatgcct ggaaagttag ccctgctttg gcatgtggaa atactctcgt gctcaagact 180
 gctgaacaaa cccctctatc ggctttgtat atctccaaat tgttgcatga ggctggacta 240
 cctgaggggtg ttgtgaatgt cgtttctggt tttggcccta ctgctggtgc tgctcttctg 300
 agtcacatgg atgttgataa gatcgcatct actggatcta ccgatactgg aaaaattatt 360
 ctgcagttgg ctgcaaagag caaccttaag acagtgcacac tggagttagg aagcaagtcc 420

cct

423

<210> 27128
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C8

<400> 27128

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tgggggcatg cctgatggct ccatgaatac aggcagatgcc gatagagggtg atggaagggg 120
tgttcgagca cagatgccca cgccaatgca aatgcagatg tcacttcccc cacctccgcc 180
tacacaacct ccatcaggct cgcagcaaac atttaacagg acttgatata ttttgttttg 240
cacgaattga tggttcctct caaaattcca tgtcaattca ttgaggaaac tgtaatttta 300
tcgtcgttgg caaaaaaaaa aaaaaaaaaa aacagaaaaa aacagatcaa acataaaaaa 360
taaaacaaaa aaatgataaa aagcaacaca taaaaaaaaa acacatacaa ttgccccaaa 420
aaaaaaaggg ggggccgttt taaaa 445

<210> 27129
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B2

<400> 27129

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cctaaggccg atggggatgg aggcgagatg cgggtgacctg gccgtagctg ccggcgcccc 120
cgtccggcgc ccgctacaac cgcgggacac caacgtggcg gcgtccacgg tagtggtcgg 180
caaggctgcg ccgaagccca aagctcatcc aaagggggcg acgaggccca ctttgccttc 240
gctgccgccg gcaccgctgt tcccgggtgg gaagccaacc ccgccgtga aggaccagtg 300
cgacgcgtct gttgcgggcg tggccgaagt gtcgctggcg gaggagctcg agagggcgcg 360
ggagcggcgc gctcggctcc gcgcggcgcg ggaacagacg gaacgggaga tggtagagccg 420
tgccgaga 428

<210> 27130
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-H8

 <400> 27130

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 gtaagtgtat gcctccctgg tgataacaac tgctcctgta cgcacgaaa tgctgggtgac 120
 cttccttaca gtgcttcagg cataacttggt agccgaatgc ccgttttata cgagtgtggt 180
 gattcctgca catgttcaca aaattgccgg aaccgagttg tacagaaagg tacgcagatc 240
 cgttttgaag tttttaagac aggagatcgt ggttggggcc ttcgtagttg ggatccaatt 300
 cgagcaggca catttatctg tgaatatgca ggtgaaatca 340

<210> 27131
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-A1

 <400> 27131

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 tcaagttggt tctagcaacc ggctgtgagg atatcatatt ggctgttcgg ttgctcaaca 120
 ttaagcagcc actcgtacca gtccttccca caaggtgctc tgagagattc tagacctgct 180
 gccgctcaca tcgttttgat tacctgagaa gatgcctttg gaaattcaag atagtgaggt 240
 tgacattgtg attgcagcac tccagcccaa cctgaccact ttctttgagg catggcgacc 300
 atttttctcc cgtttccaca tcattgtcgt caaagatcca gacatggcag aagatcttca 360
 aatccctgca agttttgatc tcaaggttta caccaagtca gatattaatg gg 412

<210> 27132
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-A10

<400> 27132

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tttggcaatc gtttactgaa gccatatgtg gtggcggaac ctgaaattca ggaagaacag 180

ttcagtgatg agctggaatg cctggttctc gctagtgcg ggctttggga tgttgtggaa 240

aatgaggaag ccgtttccct tggcaaatca gaggacacgc cagagtctgc agctcggaaa 300

ttgacagaga tcgcttattc tcgtggcagc gctgacaata tcacgtgtat cgtggttcaa 360

tttcaccatg acaaaaccgg atgaaccatg tggcggccaa tttcagttgt accctgcttc 420

aagctatta 429

<210> 27133

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A11

<400> 27133

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ttgggcggcc tcgtggtcgg catcctcacg ggccacatct acgaccatgt ggacgcccgg 180

gctctgacgg ccgtgagctt caccttctag gcgattcctg cgctcttctt ctaccgcgtc 240

tacgggaacc tcttgctggc ctggaacatc gacctcatgc tcatca 286

<210> 27134

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-A12

<400> 27134

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tggaggtcct ggagaccctg gagggggagc tcgccgacaa gcctttcttc ggcggcggcg 120

ccctcggctt cgtggacgtg gctctggtgc ccttcacgtc ctggttcttc gcctacgaga 180

agctggggcgg gttcagcatc caggagcact gccccaggat cgtggcctgg gccgcgcgct 240
gcagggagcg ggagagcgtg gccaaaggcca tgtccgaccc tgccaaggtg ctcgagtctg 300
tccagttcct ccagagcaag ttcggtgcc aagtatcgat cggaagcact gtgtgtgctg 360
ctatgcangc cangctggtg ctttgatcag ctcatcagc ttcattgcca tgctagcgtt 420
gcatatcgc 429

<210> 27135
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A2

<400> 27135

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cagccgcatac gatggcgctt aaggcggaga agaagccggc tgccaagaag ccagcggagg 120
aggagcccgc tgccgcgaag gccccggcgg ggaagaagcc caaggccgag aagcgcctcc 180
cggcggccaa gtcgtccggc aaagaaggcg gcgacaagaa gggtaagaag aaggcgaaga 240
agtcggtgga gacctacaag atctacatct tcaaggtgct gaagcaggtc caccgggaca 300
tcggcatctc ttccaaggcc atgtccatca tgaactcctt catcaacgac atcttcgaga 360
agctcgccgg cgaggctgcc aagcttgccg gctacaacaa gaagcccacc atcacctctc 420
gggagattc 429

<210> 27136
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-040-Q1-K1-A3

<400> 27136

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gttgggtgat tacgacggag tgggatgggc ctctcgaca agctgtggga cgacaccgtc 120
gcgggcccgc gcccgacac cggcctcggc cgctccgca agcagcccgc gcgccccgcc 180

gccggttaaga tcagtgatcc ggccggggac gctgcagcgc tcgtgccgcc ctgcgccggt 240
 tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca tcatgatcaa gcgtcccgcg 300
 gggtagcccggt cttcgccgaa gagcgcggca agcacaccgn eggcctctcc actagggact 360
 acc 363

<210> 27137
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-A4
 <400> 27137

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 gttatcacia gatgataagg ctgctctgcc ttcttcagaa cagtcacata tatctccagc 180
 tactagttct gaagctcaag gggcaactac taggaaggct acaaccacca cctcactttc 240
 agaggctgct gcagcatgga ggccttcaag tgctcctgtg ttaccacac caagatcaac 300
 cgggccagct gcttcacata ttcaaacttc cacattgctt tcccgctcta tgagtgaagc 360
 agctgggaga aggccagtaa atgaccttc atttctctgcc ccatcttata ctccacagac 420
 ctaccggaat gcaataattg gt 442

<210> 27138
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-A5
 <400> 27138

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 gcctgtggcg cgccgtgatg gatagcgta ggggtcctc cccctcggcg ctggacgcgg 120
 ccccaggtag cggcgtcgag ttctggcacg gcgcagagcg cgctgggtgg ctaaataagc 180
 agggcgagta catcaagacg tggaggcggc ggtggttcgt gctgaagcag gggaggcttt 240
 tctggttcaa ggaccctgcg gtgacacggg cctcggtgcc ccgcggcgct atccccgctc 300

ccacctgcct cacagtcaag ggcgccgagg acgtgctcaa ccgccagttc gccttcgagc 360
tctccacgcc tgccgagacc atgtatttca ttgctgactc cgag 404

<210> 27139
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A6

<400> 27139

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gcctgtggcg cgccgtgatg gatagcgtca ggggtcctc cccctcggcg ctggacgcgg 120
ccccaggtag cggcgtcgag ttctggcacg gcgcacagcg cgctgggtgg ctaaataagc 180
agggcgagta catcaagacg tgtaggcggc aggggttcgt gctgaagcag gggaggcttg 240
cctgggtcaa ggaccctgct gtgacacggg cctcggtgcc ccgaggcgtc atccccgctc 300
ccacctgtct cacagtcaag ggcgccgagg acgtgctcaa ccgtcagttc gacttcgagc 360
tatacacgcc tgccaagacc atgtatttca ttgctgactc cgataatgac a 411

<210> 27140
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A7

<400> 27140

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gaagccgacc ccaccgacgt acacccttc cccaaagcct ccgacgcca agccgacccc 120
accgacgtac accccttccc caaagcctac gacaccaag ccgacccac cgacgtacac 180
tcccacaccg aagtcgccg ccaccaagcc gtccacctac actccgacgc cgccggtgtc 240
tcacacgctc agcccgcgt caccatacta ctagaaagcg atgcctacca taccacactg 300
ctgtcagtct ctggagcatt taggtggtct ggatcaatgg aaaggtggg tcctagtcag 360
gcggcaaaga tgagctggtg atgggtatga tgatgat 397

<210> 27141

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-A8

 <400> 27141

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 gtggaggcgg cggatctggt ggtggtggaa gcggtggcgg cggcggatct ggcggcgggc 120
 cgacgagcgg tcgttgcccc gtggacgcgc tgaagctggg cgtgtgcgcc aacttgctga 180
 acgggctgat caacgcgacc ctggggacgc cgtccaggac gccgtgctgc acgctgatcc 240
 aggggctggc ggacctggag gcggcggtgt gcctctgcac cgtcctcagg gccaacgtcc 300
 tgggcatcaa cctcaacctg cccatcaacc tcagcctcct cgtcaactac tgcggcaggc 360
 gcgtaccctc gggcttacag tgcttctgac tatcacacgc ccatcgatcg atcgatctgg 420
 aggctaaata a 431

<210> 27142
 <211> 125
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-B1

 <400> 27142

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 gagaaaaaaaa aaaaacaaaa aaaagaacaa aaaactacaa aacaaaaaaaa aaaaacaaca 120
 caaaa 125

<210> 27143
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-B10

 <400> 27143

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 gttgaacgag caatatggat agaacctacc cggaagactg gagttttgta cagtcgaact 120

gttaccagat ggtgagtgct gtgtgtgtat atgacgggat tgatgcatct gtgaggtgta 180
 ttgctccggt ggcggtacta caacacagtt ttgcataccg aggagcagag gcatgtacag 240
 cgtcatgtgt taaaattgct ccgaaatatt attgagtttt gtagaaaaaa aaaaaataa 300
 aaaaaataaa ataaaaaaat ataaattata aaataaaaaat 340

<210> 27144
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-040-Q1-K1-B12
 <400> 27144

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 gaggcaactg tgggtgcggc tccggctgca agtgcgga cggctgcgga ggggtgcaaca 120
 agatgtaccc ggacatggct gagcagggtga ccaccaccac caccaggct ctcgtcatgg 180
 gtgtcgcacc atccaagggg cacgccgagg gcgggttcga 220

<210> 27145
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-H7
 <400> 27145

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 gcacaagggg tcttacgggtg gtcaggggct ggcgacggtt gaaggccgtg tccatgggtg 120
 tcttcagcgg cggcgcccgga cccaacacca ccaccaccac gacgactatg gaaatggagc 180
 cgctgtatcc gccccatgag gctcgaagtg acgcagatat caggttgaga agcccacagc 240
 ggaaggcacg tgaggtagaa gaagccagcg tgggtactcaa ggtccacac cgaaagaccg 300
 ctgttgccgc tcatgtatca tcgcaggtag aacagccctc gctaccttcg cagcaacctg 360
 acgtggttgg aaccaaaaat tcagcagcgg aagttgtaat ggacgtcgca tcaccgaaac 420
 cacttcaggg ggcgttggtc atggcaaccc 450

<210> 27146

<211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-F9

 <400> 27146

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 atgtttctac tttcctagtt caagctggga ttgcgaagaa agagaacatc aagattcacg 120
 ggttctaagg gacctgtaaa tgcttggtgcc ctatattgtg tgccttcaca tattggggag 180
 cttgaagcat cgacaagtta ctagtcatcg cttacttata taagaacata agtagtattt 240
 gctattgtca agtgtgcctt gcttgattca agttgtgttt tcgtatcatt attattattc 300
 acggtcatcg tacgtgtatg gcttgatgg gttattgccca acttaataaaa agcacactct 360
 gtttgcctat t 371

<210> 27147
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-G11

 <400> 27147

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 gccatgatcc ttcttgcac gtgtgtcgtt catgtcaca ttattaatgg ggggcaaagc 120
 aacaccggga gcctcactat gaccacgacg ggggaagcaa gcatgataat tggagatgag 180
 aaagatgcaa tttgctatat aaaagccgca ttgtattgct gcaaaaggac tatacagtgc 240
 tatcaggaca tagcgcaatg cttgaggaac tgccgtaaaa atgtctaaca agaggctatg 300
 ctttctccaa ctgtagatg gagatcataa agatgttacg ttagacctaa tcatgcatag 360
 accggaggag aaatataagc taattagccc attcaaaaa 399

<210> 27148
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-G2

<400> 27148

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cggcgattgg cggtgaccat ggcggtgggc acgccggcgg cgacttccgc cagaaggtat 120
ggagcatgac gggcggtccc tactgcccgc cgtccactg gcgccgtaac accgtcatcg 180
ccatgttcgg cgtcttctc atctgcatcc ccatcgctat gaagtccgca gagctcgagc 240
aacgcccgcga tcaccagtc cggccaatcc catctcaact gtggtgcaaa aactttggta 300
agaaggaata ctgaaggacc cttcaactag catgaagtgt gtgcaccttg cttttgcctt 360
ctttttgtgg aaacctgtgc ctagccataa tgctggggta agtgtttaga gcatctctgg 420
aatgcttctc gtagtatctt ttggatcttc tt 452

<210> 27149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G4

<400> 27149

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tggggtttgtc tttgtttatg ggtttgtcgg tgccacagta tttcaacgag tacacttccg 120
tagcaggctt tggcccggta cacacgcgtg caagatggtt caacgatatg gtcaacgtgg 180
tattctctc gaaggcgttc gtcggcgggg ctgtggcgta tttctggac aatacgctgc 240
atcggcgaga tggcgccgtg aggaatgacc gttggcacca tttctgggac aggttcaagt 300
cctttaaaga cagaccgcg caaccgagga atttctactt cttttccatt caaccttaaa 360
caagttcttt ccggtccttc tgaaccttat tgctgggtaa ctgaaaaatg ct 412

<210> 27150

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G5

<400> 27150

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cgcggcctca ccctgctcgc tgtatccac tcgacggcga ctgggcgaca accgatgtct 120
ccctaaacct ggtgcctagg tatctctgcc ggcgacgagc acctgccagc tgcaggggta 180
tgggaatgga ggtcgttggg gctgaagcag caccagcaga gatcaaagta tctgatgatg 240
tgaatctatt ccaatagaag gaaagcgaag caactgcaaa agaactgag gaggcagctg 300
ttttcgggtc agagataact accaatgtca ccgatctggc accttcaaag gatgtgaagg 360
atgagtggcc tgaatctaag cagacttatg ccttctactt catcaaggtc cgctcatttg 420
aggatcttaa actgagggca aaaatcgag 449

<210> 27151
<211> 456
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-039-Q1-K1-G6
<400> 27151

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gtggaagcac ctgtgttttc gttgctttac atagctcaat gttacgtctt ggaaggaaga 120
ggttacttcg tctggtcgtc agtttgaacc gcctggcatg cacatgatct atcttccata 180
ctccgatgat attagatatt ctgaggaagt tcatgtgact tctgatgatg caccgcgtgc 240
aacagatgaa caaatcaaga aagcttcgaa tatattcaaa cgtattgatc tgataaattt 300
ctctgcatgc caatttgcta acccagcttt gcaaagacac tatgggatct tggaggcctt 360
agcttttaggc gaagatgaga tgctgatat aaaggatgag accctgcctg acgaagaagg 420
ctngtctaag ccaggggtag ccaatgctat tgagga 456

<210> 27152
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-G8
<400> 27152

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gctcgtggcc gccgcctcgc cctcgcgcgc cgtccctgct cgcgcggcgc tgggcggcgc 120

gcgcggcccc ctgctgggcg ggtggaaccc gatccctgac gtgagcgact cgcacatcca 180
ggagctaggg ggggtgggccc tggggcaggc gaagcaccag aagctggccg ccgacgggct 240
gcgggttccgc cgcgtgggtg gcggcgagca gcaggtcgtg tccgggatga actaccgcct 300
ctacgtcgac gccgtcgacc ccgcgggccc caccgtgcc tacgtcgccg tcgtgtacga 360
gcaggtctgg acccgacccc gtcagctcgc ctccctcaac ccggtgcccc gcgccccctg 420
aaaccatacg gacac 435

<210> 27153
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-G9
<400> 27153

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ttcgctacgg gcagcaccac agcgcgcgcg acgctggcat cgcgcacttc gtgccagccg 180
gccgcgcgcc gggcgccggc ccgatggatg ccgctgcgct gctcgccgcc ggccctgggc 240
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actttttctt catttgatga gttgctggag aagtctgaga agccattgtt agttgacttc 360
tatgcaactt ggtgtggtcc atgccaatac atggttccca tacttcaaga agtgagtgag 420
aag 423

<210> 27154
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-H11
<400> 27154

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cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg agaagggcgt gggcaagtcc 180

gggaagccgc tccactacaa gggctccacc ttccaccgcg tcatccccga gttcatgtgc 240
cagggcggcg acttcacccg cggcaacggc accggcggcg agtccatcta cggcgagaag 300
ttccccgacg agaagttcgt gcgcaagcac accgcccccg gtgtgctctc catggccaac 360
gcggggccca acaccaacgg ctcccagttc ttcattctgca ccgtcgcgac cccttggtctc 420
gacggca 427

<210> 27155
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-H12
<400> 27155

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aatgaccaga agatccttga ttctctaat ttccaggttc ttttgaaacc tattgtctcc 120
cagttcgctg tggaaccacc aaaatctgtt gaatcagttc ttgacgctcc atcaattgaa 180
gaagtagatg aaactataat tctgtgcttg ttccaaatgg cattaactgc acggtcagat 240
gttcttttga agcctcttaa ccatgaggtg ctgatgcaga ctacgagtga tgaaattcgc 300
cccaaaatgc taggcctgaa cgttatcacg tacatgggtc aacatctgaa tgaggagtat 360
gtcgtctctag taccacagac cat 383

<210> 27156
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-H2
<400> 27156

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ggccaatcct ttaaactttg tattttatat atatgcaggc ggaagcgctt gttaaagccc 180
aagatgatct tagagaaact acaggtcact tgggaatgac attgattaag ctggcaaaat 240
ttgaaagaga gcaggcaaca tgtaattccc taagaagacg tgctggtgaa atccataatt 300

ttgcaaattc tgtttttaaag atgagcaggt cacagataaa attaaactct gaaatgggtga 360
aacacctgtg caggatccat gaatacttgg agatgatgat atcagtttat c 411

<210> 27157
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-H3

<400> 27157

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acttatttgg gtcagttggt gacgattatc atcttttgat ttgggacctg cggctctcccg 180
cccctactaa acctgttcag tcagtgggtg cgcaccaggg tgaggtgaac tgcttggctt 240
ttaaccggtt caacgaatgg gttgttgcaa ctggttctac tgacaagact gtcaaattat 300
ttgatcttag gaagattgat acttctctgc acaccttga ctgtcacaaa gaggaagttt 360
ttcaagttgg atggagtcca aagaatgaaa ctgtac 396

<210> 27158
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-H4

<400> 27158

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tct 123

<210> 27159
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-039-Q1-K1-H5

<400> 27159

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agcattgctg aagtcttctg cgggtctcat agccaagcag aaagtcagga tgatttggaa 120

catgagagaa gagactggca acgattttcc catgctgtga ttggagagga atctgaaaga 180

acttggcgtg aaaatgcaga catgtcatct catgagggga cagcagttga agatgataat 240

aacgatcatc ttccagaagc aaatgaagag tcaaccagtg ttgatcacct tctgaagga 300

cttgaagggt ctatcactga tggtagtctt cctgaagcgc aagaagatca gcatgacagt 360

gatcatcttn ctgcagtgtc tgaagagctg attggaataa tcactttcaa gaatcacatg 420

gggaatggag aaaagatgat cgt 443

<210> 27160

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F8

<400> 27160

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agccccctta tgccatcccc ctggtctcaa cagctacact gtgttctctc gtcctcacc 180

ctgggtgctc tgtaccgtcg taccgatgct aggcatggac ggacgtcaaa gtgacttccc 240

ctcaactctc gcgggtggcc acatataaat tgtccctaaa taaaacgacg ctgcaattga 300

cgtcttcaag ggaatcgaca aaccttttg tggagcaggc catacaattc tccgtagcag 360

ctgctaaagc gaccattatt gataaggaga ggaaggatgt agtagataag ttactgctgc 420

aaggtctgaa cattacaatt attggtcaca atgatttct 459

<210> 27161

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D7

<400> 27161

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 gtaaactgtc atttcctgtc ttgcttatca gtgagttaca cacgtttagt gcttttatca 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aataaaaaaa ataaaaaaaa 240
 atatatt 246

<210> 27162
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-E11
 <400> 27162

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 cgggcctgta cgtgataccg gtctagctag agaggttggt tctggcgaat cctctggcgc 120
 ggaaagggag tagggaaaaa aatgccttga cgtttggttt ggtctccgtc ggttggttagg 180
 gttggaagga tgtgcaaagc cagggtgtga ttattgggct aagtaagtaa gtataatatg 240
 agtggctcggc cgggttacctg gagcttgatc gtgatagtat atgggatgta atttcctctt 300
 ctcttctttt ggctgagcca tggatgggtg gcttgtaaca aggatggcct gatgtcagta 360
 tactacccta ccataccatg gagcatattt ggagattcag tgggtttcag tc 412

<210> 27163
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-E12
 <400> 27163

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 ccacaggggg gatgtttcga agcacaaggt tgagcatgcc ctgacgaaga tgtgcaagga 180
 gggcccatat tggcgcactg ttgctggagt ttatgtgatc atgggtgtac gcgtacaaag 240
 gatccgtatc cgcagtgact ggaagaacgc gattatcgga ggcgccttgt ccggtccct 300

gatctcctgc tccagcaaca acgacagatg caatgtc

337

<210> 27164

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E2

<400> 27164

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gattgatgtt tagacacagt tcgttactta caacaagcca acaaatggaa acagattgat 120

caaattgtct ccactactta ttgaaagggga aatgtgccct tgggctatatt ctaagtattt 180

tgggtgattaa gtgtccaaca caagtgccta agtggttaaata tataccaagg actcaagaag 240

tgaaaatcaa cataaaggta tttttctaag acttagtact ttgtttt 287

<210> 27165

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E3

<400> 27165

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gacgcctgtg cggatgaatg cggtcgtgta ctcgctgtcg ccctttcagc ttaagggttat 120

gcccgggctg tggaaggaca tcaccaccaa gatccaccac aaggtcacct tttacctgga 180

tctccgtcac gctcctactc accctcgtct tttgcaccta ctaatacgcc ttgtggtaca 240

aggagcatga gaagctttcc cacagatatt aaatgcgctt tccttgacag acagcactcg 300

tagttttcat gattggtttc ataatcctcc catgatgatt taacatttgt 350

<210> 27166

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E7

<400> 27166

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atccatatgg atgtgacatg tgaacatct ccacagctga acctgcccc aatatttgca 120
aagctttttc caaaacaatc tgttccagta aataaaccat ctactctgcg tactgaagat 180
gatcaacagt cagcagatgg ggagctggta tttgaatttt ttgaatatga acagccatac 240
tcacggcgac aattatttga caaggtaa at gagctgattg ccggtgcgaa accgtcaa at 300
tgccaaatat ctggggaccc aaagaatctg gaggccagcc tgc atgatct ccatccagcg 360
tcttgggtatt gtgttgc atg gtatcccata taccggatac ctgatggaaa attccaagct 420
acattcttga catatcactc t 441

<210> 27167
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-E8
<400> 27167

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gaccgcaagg agttcaccaa ggtcgccgcg cggactgcga tcggcttcgt cgatcatggga 180
ttcgctgggt tctttgtcaa gtc atcttc atccctatca acaacatcat cgctcggtcc 240
ggctgatccg taaacctcag gctagtggct gcaggagtgg acaatggcgt cactaccttg 300
gaggcagcac cgttttcagc tctgatttcc gcaaagcaat tccttttagga cttgtgttgt 360
taaagggcaa ctcccttacc ttttcctctc ttgaggctgt gtggtagatc tggaaactct 420
ttgtacctgg tgtcgaata 439

<210> 27168
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-E9
<400> 27168

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ccatatctct cctgtactgt agcttactcc cctatccaga accttatatc tcaacctgca 120
aattggcaga tccataccct gctgacccat atctctgctc cgaccatgac tgaccgccac 180
agcctgagcc gtacccttct gacccatata tctcattcac ctacgatctc attccatata 240
cagagccgta tctatactcc tactgcttct tcttccata cccggatccg aatccagatc 300
catagccacc atacctccta cgcaacagge tcgttctga atccgtaacc tcttccgtaa 360
gaccgctttt gatactgctt tgatcagaac ccatatttgg acttta 406

<210> 27169
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F10

<400> 27169

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acaagctaata tatgctgctg ccaaggctgg gggtattggg ttcacaaaaa cagttgctag 120
ggagtatgcc agcagaaata ttaatgcaaa cggttatcgt cctggattta ttgcttcaga 180
tatgactgct gaacttggtg aagagttaga gaagaaaatt ctgtcaacta ttcctttagg 240
gcgctatggt cggccagagg atgtagcggc cctgggtggaa ttcttagccc tcagccctgc 300
tgcaagctac atcactggac aggtcctcac catcgatgga ggaatggtaa tgtaaggctt 360
cgaatctgtg ccgctggcct ctaatgtgtc gcagaaaaaa atgtaattca gttttttgag 420
tgt 423

<210> 27170
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F11

<400> 27170

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ccgtcctacg gaacaagtat tgggtcctcc gccacggccg cagcgtcccc aacgagcgcg 120
gtctcatcgt ctcatctctg gagaacggca cgaagccgga gttcgggctg gccccgcagg 180

gggtcgagca ggcgcgcgtg gccggcgaaa agttccggaa ggagcttgac gagattggtg 240
 tgccggtggg ttccgtcaag attcggttact cgcggttctc acggaccacc gagacggcta 300
 gagtgggtcgc cgggtgtgctc ggcattccct ttgaagctcc tagttgcgaa gcggtgctgg 360
 gacttcgtga gcgctacttt gggccatcat atgagttact ttcacatgat aagtatgcag 420
 acata 425

<210> 27171
 <211> 272
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-F12
 <400> 27171

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 aacactttga accagtgcaa ctgcttaaag catatctgac ggatgttaat aaactgtcac 120
 atgccaagaa tgtcaaaatt tctactggag cacacaatga gatgaatgat cgtgagttgt 180
 gtgcactgaa atctgtcatt aagtgcattt aagatcataa acttgatgag ctacaccctg 240
 tgtaccact tcaaaaatag gtttttcaac ta 272

<210> 27172
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-F3
 <400> 27172

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 agtgcgcctc atcagaatca cagtagctcg caccgcactc tctggcttct cgtcgatcgt 120
 cttcgtcgtc ctgcgtctc cgaccacat gatggctagc tctccatgtg ccgcttctcc 180
 tctcgcacgt gccgcttctc ctcttggtt cgatatgttg tattgtttcc atgtaaattt 240
 agtcggtggc ctggatcgag ttggctagct ctctctacag gcaagagaca accgaccgac 300
 cactactatc ttagagcaaa ttgattatcg tcatgatggt gtactgttca agcttttatt 360
 aacgactttt aattt 375

<210> 27173
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-039-Q1-K1-F4

 <400> 27173

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 gtccggcacg ccctacatga tcatcttcgg cgtcgtgcag attttcttct cgcagatccc 120
 ggacttcgac cagatatcgt ggctctccat cctcgccgcc gtcatgtcct tcacctactc 180
 caccatcggc ctgggccttg gcacgcgcga ggtggtgtcc aacaaggcg tgcagggcag 240
 cctgacgggg atcagcgtcg gcgcggtcac cccggtcgac aagatgtggc gcagcctgca 300
 ggcgttcggc gacatcgctt tcgcctactc ctactccctc atcctcatcg agatccagga 360
 caccatccgc gcgcgcgncg cgtccgagtc caaggatcatg cggcgcgcga ccgtcgtcag 420
 cgtggccgtc accacgttct tctacatgct gtgcgggt 458

<210> 27174
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-F5

 <400> 27174

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 cgcttcaatc agatggttac ttgttgcct tgtagcatca acatcctcgt gacacatgac 120
 agctaaaaga ttcacacctt ctgtatcaag catocattca ttagctgctt tgaaaccgtc 180
 atcttgatag aaggtattga ccttcccttc tttgatgaac actttgttga tatctggaat 240
 gcctcgaagc gccatctctg tcaacatatt gccctctatc ttttttagga agacatcatc 300
 ctcagcagac tcatcttgta tttctccttt ttggagcttc atcatttgtg atgcggatac 360
 tgaggataag cttatcccca ttatcaataa ttgaaatgca 400

<210> 27175
 <211> 432

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-F7

 <400> 27175

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 cgctccacc tcaactctgc cgtctgacgc acatggcctc catcgccgga tcttccgctc 120
 tctccttcgc catgcctgtc aaggcaatca actcaaattc tctagccttc tccccggtga 180
 ggaagggtaa cacattcctc cgcctgcaac cagtgcctat gagatctgtt tcctgcgctg 240
 ccaagaagga tacggtggac aaggtttgtg aaattgtgaa gaagcagctt gctcttcctg 300
 accacactga agtttgtggt gaatcgaaat tctctgaact tgggtgcggat tcgctggaca 360
 cggttgagat tgtgatgggc cttgatgagc acttcgacat tagcgtggag gagtccaacg 420
 cgcatacaat tg 432

<210> 27176
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-D5

 <400> 27176

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 gggagaaaaa aaaaacgagc gggagcaaac aaaaaaaaaa aaaaaaaaaa aaaaaaacca 120
 aaagggaat cactttaag gacaaaaaca acgctttgac tggtaaaacc cttaacgata 180
 ctaatctgaa tccccaaaaa tcaaatcacg gtttcacat ttaaaactat aacgatgaga 240
 aaccaccca tttcccaaac taacatttgc tcaaccataa accgctaag g 291

<210> 27177
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-C1

 <400> 27177

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agcaggcatg gcgcggtgcc tcgcgctcgt cgccctcctc gtactcggcc tcgccgccgc 120
 cgccgcctcc gcggccgacg cgcccttcgt cgtcgcgcac aagaagattt cgctctcccg 180
 ccccaagccg ggcgtcgagc gcgttggcgt ctccgtcgac ctctacaacc agggatccgc 240
 gactgcctat gatgtgtcca ttaatgacga ctcttggcca acagaagtgt ttgagcttgt 300
 cactggagaa aaaatcgaag acattggaaa ggcttgaccg tggtgccact gcttcacaca 360
 catatgttct ggagacaaaa cacaggcatg tttcagggtt caccagctat cattacatac 420
 cgtgttccca caaagacagc t 441

<210> 27178
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-C11
 <400> 27178

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 caaccaatga acctgggtgca ctgatgaatc ttgtagaaga atcaactgcc gatgatgcag 120
 atgatgatga tactaaagat tgtaaagggtt tatttaagaa cttaaagttc tacttgagtc 180
 gagagggtgcc tagggagtcg ctgttattta taattccagc atttggaggg actgtttcat 240
 gggaaggaga aggagctcca tttaaagaaa tagacgaaga tatcactcac caggttgatt 300
 ccatttgcaa taatttatta caccaaagtt taactatata gacggagaca ttgtgtacca 360
 tccctaaagt aagatgccac tctaagtacc acgacagcaa tgccatacta gggcaatagt 420
 tactaca 427

<210> 27179
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-C12
 <400> 27179

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catcttcate tttgtcttgg ttattgcgta ccacttcgtg atggcagacc cgaagtacga 180
 aggaaactga tgtcctctag tgcaaagatc ctattatctg caggccgaaa tagggctata 240
 ctgttagcta atgctagtga gatcgcttga cactttgagt gcataatcatg gaagctggac 300
 atgcagttcc tggcattttg gttttgcccc tgttttaata tgctgaatta gtaaatacctg 360
 gagaattcaa aagcgttttc aagtactgca gttgggtggtt gtttctggtc ctagtgatatg 420
 catgc 425

<210> 27180
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C2

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 gttccaccac cggggcacct cggagatgct cctcaaggct ggctacaaca actgcgtgcc 180
 catcacgccc gagttctgca tggcgaacat ggccggccgg agcaacgagc agatcggccg 240
 cttcctgttc cgggactggg accagcggcg tctctacgcc ttcttcgcct agaaggatgc 300
 tctct 305

<210> 27181
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C3

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 gggtcggcaa agttcaatcc attggcaaag gcgtcgacaa cagcatgccc aaggtgatac 120
 gacgcttcaa acagaaaaat ctggtatagt atttgcctgt gctgaggcct gcaagccac 180
 caatgctgct tccaaccttc attgttccaa gcaaccaagc atgtgttttg tttttcttcg 240
 tcgtgtcgag tatgacggcc cctgacaggg taagtgtttg cttagtttgt agagcaaagc 300

tagcacataa gaaaaaatat tttggtatgg gtgggggggca tgtatacagg attgtagccg 360
attctgattg ctgaatttgc acc 383

<210> 27182
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C5

<400> 27182

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gctgtacacc aagtgagga gccattcttt gcaaggcata ataaagtatt attatcgctt 120
atagcttaca gttgcctagc ttccagatgc ctgtacactt cattaaatcg agcacttgca 180
aaaaagaaag ccagagagag gaagacgaac atcactagtc agcactagat tgtgtgtttt 240
atgttgagtt gcaaattcat gtcttgattt ttgtcctgcc atgaaccggt aggcgatatt 300
gtattggaaa ggatgcttcc gctattgttt cactatatac cgcctcagag tagaagtttc 360
cagttaaaat gaactctgat tagttcgtcg at 392

<210> 27183
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C6

<400> 27183

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gttcgacaac gctgggtgca tgatgagtgt agatgataca ttgatgtgct cgttcctaat 120
attgaagcct gcaaggaaga tgatgggtgg ttcaactaat aacaaatctg gcttcaagtc 180
attcatggga tgggtgacaac ggctgatgg tgggcacgct gcgttcgaca gggggtacat 240
cttacagcgg ctgcaactaa caggcatatg cattttcggg gaaacctgct tgggccttgg 300
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tattgttatc ggtttttaaat aaaaa 385

<210> 27184
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C7

<400> 27184

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accatgaatg cctgcagttt gcttgcgtcc atttcgctgt cactctgctg cactgtcgcc   60
gtaccatgta gtattatgat gcatggtgct ccagtttgtc attagtccat gacaaggggc  120
tcggttagtc cacagcccta gaggctgcag ctgcacactt cccttctctg ttttcgccgg  180
ttaaactttc cccacttgtt gctggccttc gaatctgcgg tttgtttgag cttagcaggg  240
aagcgaagaa caggaagca aggacatgga tgctttcagt gcagtgatgg acaaggtaaa  300
gagccacca gaaatgatgg agaaggtaag tgcagtgatg gacaaggatga agaagagcca  360
cccagaagcg gtggaaaaag tcaaggacca ggtgaagagc cttgctgacg ctcttcacct  420
gcggagacat ggatccaaag ataaagaacc                                     450
  
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<210> 27185
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C8

<400> 27185

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gattccagca gcgctcaagt tgttgaagat gacaatgacg atgaccttgt tatgtttgat  180
gaggacccaa ggcaaagtaa gaagaagaga ttgcagtagc atcctgctgc ggcgataaca  240
gctcttgact cccggcatcg tggctaacac attgttcgat cgtaacatct ttgataactt  300
atztatgcgg ttatgtacca agttgatggt gaaacattag taacaatgcc cagggcacct  360
tttggcctca gatagtcaga taccctgtag ggttgaatt tgtaggaatt aggaacaaga  420
gcaactaatg c                                                         431
  
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<210> 27186
 <211> 325

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C9

<400> 27186

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaacata taaaaaaaaa 120
atagataacg caatccaaaa ttacaacgat ttacaactcc taaacaggaa ccaaaactga 180
attaaccgaa cctcttaaaa aaacatcaca tactggaaaa aaccaaatct ttaccaaaact 240
aaaaaccctg gcaaaaaaca ccttaattac cagctttaa aaaaccaaaa agaccatac 300
ccatattcat aacaaacatt aacca 325

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<210> 27187
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D1

<400> 27187

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tcaccccttc ctgtaacttt cattgaattc atagataaat atactcctat accttatattt 180
attaatctaa tgtattttact ttttcttttt tttttcacac tttttttttc tttttttaat 240
aaatgcatta atttcattgt ctgaatactc tttttttata actttaattt tattc 295

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<210> 27188
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D10

<400> 27188

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gaaggaaaat acttcggagt ggaactgtgt ctgacagtct ctcagatttc aacagtatat 120
gctgcaaaag tgcaccgctt caatatgttc ctatccaaag cataagatca ttagtcctac 180

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aaactgtcat catcattgta tctaaacctg gagatattgc tgagacccca gctgctttgc 240
 ttcttcaacc ataattattca gcagttggca gatggtgact ccatcgacat tcagtctcat 300
 aacgcctttt ttgaataaca aatggagaga tctatagggt aaatacagca caacgaatcg 360
 agcatgtaag ccacaacact catctctgat gtgcggatag atgtgtata 409

<210> 27189
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-D11
 <400> 27189

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 cccatattgc agggcacatg ggactggaaa gtgggagtgg aaattcgaga acaagccggt 120
 aaacatatac tatgaggaac atgagcagga ggttgctgag aatatgaaga acattctcat 180
 gatccctacg atctctgatg tgagcactgt ggaggagtgg agggtggttg ccaaagatat 240
 tgttgggcgg aaaggagaac ttggctaccg tggtacaatt gtcgattggc ctggtcttgg 300
 ttattcagat aggccatcac tgaactacaa tgctgatgtg atggagagct ttctggttga 360
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 <211> 456
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 27190

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 gcggcccgcg ccgccgacat cgcgtcccag tacaccgcg tcgagcagga gaacaccgtg 180
 ctccggggcc gcgcgcgga gtcggcgac cgccttcgct ccgtcaacga ggtgctccgc 240
 ctgctcgagg agttcagcgg cgtcgccatg gacatccagg aggagatgcc ggcggacgac 300

ccgctgctgc gtccctggca gctgccctac cgggctgccg ccatgcccac cggcgccccg 360
cacatgctcc actactgatg attgcctcca ccaaccacac caccatacat ctgatgctgt 420
cagctggngc tggttggcaa caagacaaga agaatt 456

<210> 27191
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-B9
<400> 27191

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ctcctccacg gcgatggcgc gcacccccat caaggtgggc tccttcggcg agggccgcat 120
caccatgcgc aagaccgtgg gcaagcccaa ggtggcggcg tccggcagcc cctggtacgg 180
ccccgaccgc gtcaagtacc tcggccccctt ctccggcgag ccccgagct acctcaccgg 240
cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300
cgccaagaac cgcgagctgg aggtgatcca ctcccgctgg gccatgctcg gcgcgctcgg 360
ctgcgtcttc cccgagctgc tctcccgcaa cggcgtcaag ttcggcgagg ccgtctgggt 420
ca 422

<210> 27192
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-038-Q1-K1-H9
<400> 27192

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gtgtcagatg cgcgtctgga tggttccaag attatcaaga ttttcttgga cccaaaggag 120
aggtacaaca ctgaatacaa gctggagacc tgcactgcgg tctaccgcaa gctgtgtggg 180
aaagatgtgg tctttgagta ccctatgacc gaaaatgcat aaatatgatg ccctatggat 240
atctgcactc tatttcgggtg attctgaatg ttatgttggg tctccctatg tacttcaaaa 300
aacatagttt tgatgctaaa gttgcctaag aatttggtac ggggaagtgg cagtggacgt 360

gaacaatgtt tagttttgag catttaaadc aaacctttgc cctgaaaaaa aaaataacat 420
 ttttatt 427

<210> 27193
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-A10
 <400> 27193

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 aacaaataaa ttactttata aaaccctcaa attacaaaac ataaccctt ttaaaaaaat 240
 tccctttttt aaaaaaacct taatatcaaa aattaaatca cttttaaaaa tatccaactt 300
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 tcaaaaatat caattaaa 378

<210> 27194
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-A12
 <400> 27194

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 acggcaagtg gcacgttcaa ggatgggtgag ctgaggctca atcagagcgg cttgcggctt 180
 atctctgagg aaaacgggga tgaagatgaa tctacaaagc tgaagggtga agatgtgcag 240
 ttatcaatgg atgatcttga gatgattcaa gtcattggca aaggaagcgg tgggtgtgtc 300
 cagctagtga ggcacaaatg ggtgggcaca ttgtttgcct taaagggtat tcaaatgaac 360
 attcaggagt cagttcgtaa acaaatagta caggagctca aaataaacca agcatcacag 420
 ag 422

<210> 27195
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A3

<400> 27195

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agtacaagca gctggacctc cagatcccga ccgtgaacac cgtgggcgcg ctctgtgaaag 180
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gcaggacgct ggtggggcgg ctggcggcca ggcttcggct taacgccacg gcgccgtacc 300
gtgcctggtt ccaggggaag caggtgtgcg ggtggacgca ggtgttcggc ggcggcgcgc 360
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cgctcggcc 429
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<210> 27196
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A4

<400> 27196

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tccggagaac aacgagaagc cgatggacaa gtgcaagggt aagttcaaga ttgtcagcct 180
gaaagtcaaa gggccggtgg agtacgtccc tgaactgttt gatgagcaga aggaccaggt 240
cgcggttgag caaatattgc gggtagttct tggatgctga gcgcccaagc ccacaaatgg 300
acaaactcaa gcgccagcta gctgaagcag aagcagccct tgaggcacgc atgagacctt 360
cagaggacaa tgggtccccgt attgttggtg aaggccttgt ga 402
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<210> 27197
 <211> 411
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A5

<400> 27197

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gagtgtgtca aggtaaatag tgtgaggcta cctcgacatg tttctgacaa aaggcatttc 120

tgtggcactg ctttagttga attttcagaa gaagatgagg caaaaggcgt ttttgagaaa 180

aatctcattt ttgctggggc agacctggaa ataagaccaa agaaagaatt tgatactgaa 240

agagaggcaa agaaagaagc atatgagaag tcacatccta ataagagcag tcatggtgaa 300

ggctatccaa aaggctctgat tctggccttc aagctgaaga aaactgcaga tgatggtgag 360

acacgaaaaa gtggtggtgg caaagtagat gacactgacc ttactaataa t 411

<210> 27198

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A6

<400> 27198

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tgaagaaaag cctctctcac cacagccgcc acgccatggc cgaggagacc gacaccaggc 120

ctgcctccgc gggctcccga ggccgccccg cgcgcgagga cgacgacagg gaggagggcg 180

agatcaccga cctcgcttgc gtccttccc cgcccgccac gcacccgctc gagcactcct 240

ggaccttctg gttcgacaac ccgcagagca agtccaagca ggccgcttg gggagctcca 300

tccgccccat acacaccttc tccaccgtcg aggaattctg ggggctttac aataacatta 360

atcacccatg caaattgatc gtgggagctg atttccattg cttcaagaac aagatcgagc 420

caaaatggga agaccctatt t 441

<210> 27199

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B1

<400> 27199

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ttgctgtcct cgctgggaac tccagcccct ctgccgagga cttgacagcc attctggagt 180

cagttggctg tgaagttgac aatgaaaaga tggaactcct tctgtcccaa ctgagcggta 240

aggacattac cgagctcatt gctgctggca gggagaagtt tgcttcagtc ccatgtggcg 300

gtggcggtgt ggctgttgct gcagctgccc ctgctgctgg cggcgctcct gcagctgagg 360

cgaagaaaga agagaaggta gaggagaatg aagaaagtga tgacgacatg ggctttaacc 420

tcttc 425

<210> 27200

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B11

<400> 27200

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gtggctttga aggtccatct atgctgggtca catggatatcc tatggatcaa tccgaaggct 120

agcttctgga gatgcctgaa gaaggtggac ttctggaaac tctttcggag ccattcttca 180

agcttcccag aaggcttgat tttacaatgt aacaaaacac acatgctgct catgacattt 240

cgagcatgta cctctggatg tttgtaggct cagaaaaggt cctggtctta ggctctgaaa 300

acctcatctg gcgaccatac gttatttacc ttgtatgggc gtcctcttg ctggtgagac 360

acggtgttac gagttacgac tcgatgaaca tgtaataaag cttttcagag aaaaaaata 420

tatatattt 429

<210> 27201

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-039-Q1-K1-B12

<400> 27201

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 ccgtgctcgc cgccctgagc tgcaacatcg tgaaggccga ggtgtggacg cacgacgggc 120
 gcaccgtcgc cgtgatccag gtcaccgacg aggccaccgg gcgcgccgtc cacgacgcgg 180
 gccggctgtc caggggtgcag gagcttctcc gcgacgtgat gcggggcgac ggcacgtgca 240
 accacggcgg cacgggaatc tccgcggaga ggcgcctgca tacgctgatg ctggacagcg 300
 tcn'gcggcgg cggtgccgat gaagctgg'tg gcggcggtga cgagaggggt ggatgtggcg 360
 tggcgaagcc caaggtcgtg gtgatggact gcgcggagag gcggtaca 408

<210> 27202
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-B2
 <400> 27202

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 gtgggaagag atcaactgat agtttgaaga acagcagctt cggcaaccag gccggggg'tg 120
 gttcaagctt t'actcgagc ttccataaca gctctagtgg caatcagttc ggtgatacta 180
 caagctttca tgccagctat ggtaacagca gccagaacaa tcagacgggt gacaatccga 240
 gcttcccacc cagcttcagc aacaatcagt cgggggatgg tctcagtttt catgaaagg't 300
 tctatggatc acgcggaagg gacgagagca gatcatacaa tgatggattt cgtgcta 357

<210> 27203
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-039-Q1-K1-B4
 <400> 27203

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 acgagggcgg cctaattctg tcagctgccg caagaagaaa tgtggtcaca gcaaccagct 120
 gagggccaag aagaatatca agatctgaag tgctgac'tc agtcactttc atggacaatg 180
 ttacgcttta ttgctgtgtg gtttatgaac aggg'tttgg't t'acccaacat t 231

<210> 27204
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-B5

 <400> 27204

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 aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa gggcgccctt tttaaagaat caaatTTTtac tacccttca ttccaatata 180
 aaatctTTTT tatagtgaag ccaaaattaa attaatTTTc cTTTTTTTaa aaatataatt 240
 attggaaaaa ccctTTTTTT accaatTTTaa atctctTTTta ttaaaatccc tTTTTTT 297

 <210> 27205
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-039-Q1-K1-B7

 <400> 27205

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 ggcgacctca gtggttgagc catacaacag tgtcctgtcc acccactccc tctctgagca 120
 cactgatgtg gctatcctgc tggacaacga ggccatctat gacatctgcc gccgttccct 180
 tgacattgag cgcccaacct acaccaacct caacaggctt gtgtcccagg tcatctcatc 240
 cctgactgcc tccctgaggt tcgatggtgc tcttaacgtg gatgtgaatg agTTTcagac 300
 caacttggtg ccctaccga ggatccactt catgctTTTc tTctatgctc cagtcattct 360
 tgctgagaag gcctaccagc agcagctgtc tgtggccgag atcaccaaca gcgc 414

 <210> 27206
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<400> 27206

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gaacaagctg atcctatacg ggctctacaa gcaagccacg gttggagatg tgaataccga 180
tcgtccgggc atattctacc aaaaggacag ggccaagtgg gatgcctgga aggctgttga 240
aggcaaatcg aaggatgagg cgatgaatga ctacatcacc aaggtgaagc agctccagga 300
ggaggctgcc gcctcttaaa agtctcttaa tagtgttgcc aaacagctat ttgtcagatg 360
agctntgtgc catttctca ttagaagtat atcattcgat ccattgngga tctgtgaacc 420
atgtacctgt ttatgtaact ggttaccagt gttat 455

<210> 27207

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H8

<400> 27207

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gggtgtcatc aagagatgca agctagagac cactgaaagc tgaatggaga cgttgacgct 120
gctaataaaa tccaaatcct ccatttgatt agcgtgaccg attgggtgga tggatcgccc 180
ttgcagtttg ctcggtttg atatgttagt gatgtaaaaa aaatgatgtc gtcacgtctt 240
gcgagatgaa tgaaccgact ttgttgtgat gaatccactg acagtcaact tatttattat 300
agggtttt 308

<210> 27208

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G10

<400> 27208

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aggaagcaga gcgctgtggt ggccgcccgc tccatcgccc tgctcctcac ttgcacatctc 120

gcagtcgcag ctggagcaga agaagcagaa gcggaaggaa tagcgccgtt gaacacatgc 180
gaaacgccga tcgcctgggc tccctgcttc ggcaagacct gggctctcgt tccccctctgc 240
attggactgc gctacaccgg cggtttctgc cagcagcagc aggtgatcga gggagacgcc 300
ggcgccgagc ctgctataat cggaggcgcc atctgcgtgt gcaccaagca gtgcctgctt 360
gtggatgtgg aggcggatca aggtgca 387

<210> 27209

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G11

<400> 27209

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ttcttcaagg acttgttcga cgactcagcc aagaccaga ctggggcagg ccttccagca 180
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ggatccacgg tgctttaaat ctgtcgaaaa ttactcgtct atcgtttggt caagaactcc 360
tgactgtaat gtaatgtaca gcttgtgtcc ttgtccttgg aaacagtaca ctaaaaggct 420
atctatgata taca 434

<210> 27210

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G12

<400> 27210

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tttggagtgc aatggcttca aatgtaacct tccagtcaag gaatgttcta agcaagaaac 180
ttatggtgca caaagaggaa tctctctaca acattaacct attctcgatc attacagaca 240

tgtcattctt tctgtacatc atagtaacct tacttaca

278

<210> 27211

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G3

<400> 27211

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cgccaagaag ctgggtgtga ttgacttcac tgcaacatgg tgtcctccgt gccgcgccat 240

ggctccaatt tttgctgata tggccaagaa gtccccaaat gttgttttcc tgaaagttga 300

tgtcgatgaa atgaagacca ttgctgagca attcagcgta gaggccatgc caacattcct 360

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<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G5

<400> 27212

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gtttctaccc ttgacgatca taacacggtt tctgggggcg ccgtcaacaa caccatcaac 120

caccaaaacg gacaccaaca atattttt 148

<210> 27213

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G6

<400> 27213

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ggcctgatgc tctacgttct cttctggatc aagttggacc ttttcacaac tctcaagtac 120
ctcggttcc tcggcatctt ccttgtgttt gtgggccata gggctctatc ctaccttcc 180
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cttgaggggg ggcattgca ggcccttggg tgtcttatga gggagggctt cggttatttc 300
agttggcttt gcagaatact gataactaga taaagtagta tgacctcacc ttcgtgtatt 360
atgatgatgc acatacaatt ttcttagtag aatggatggt g 401

<210> 27214

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G7

<400> 27214

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ctgcaaaacc tgttgggtgcg cgcgactgat cctgaggatc ttgccaggta cacagggtgac 180
gggtcagggtg actctagagg aaagcctatc acaaagcata gcacagcgaa ctggagagca 240
tgtgcattga ttacaggtaa gacaacagtc tgagctatgt gctaagcatt gacacactca 300
tatgagttct agaacgataa ccagactagt catgtcac 338

<210> 27215

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G8

<400> 27215

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gaatgaacca caaaagtatc gggatgtaat ttatgggtgac tatgtctcat cttggtatag 180
caaaggcca gagggcaagc gaaacatcga cgccctcctg attcagcact agagccatag 240
gtatgcctta aaacagggtt gggccactca tctgtttcct aaacttctaa tgcattgtaca 300

atatatcagt ttccaacttt aaacaatcag gataaggaaa ccaacttgta tactggatgc 360
 agtgcaataa agtacctttt cattgtc 387

<210> 27216
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H1

<400> 27216

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 cgagaagacg gggtatactt tgcgcgaaacc ctcttcgcta gtggagggtat cgaacccgat 180
 ggtgatcggc gatcgtgagc attcatgtta agtgttctaa tacttgagac ttttattatg 240
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 ggattagact ttttgtgatg aaattgatga ggactatgga tttaaatatt gttatgtgaa 360
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<210> 27217
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H11

<400> 27217

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 gatcggaaag aggattgagg tccatctaac ttctgatggc aaatggcatc aagggatggt 180
 gtctaattgtc atgggtggca cgctgtgtat tcagttagat aatggcaggt ctgagaacgt 240
 ggagctgggg aagcaggcca tccgcttgat tgcttcaaga tcgaagggcg ggaagcgatg 300
 aaaccttttc ccataatat gcagcttagg acctgttctc gctcaataca ttgcgccatg 360
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<210> 27218
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-H12

 <400> 27218

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 gttgtgaaga caacgatcat gttggctgat ctgcaggatt tcaataaagt aaacgagatc 180
 tatggcaaat atttcccggc gccagcacct gcacgatcaa cctaccaagt ggcggcgctg 240
 ccactgaatg cccggattga gattgagtgc atcgctgctc tctaatacaga tcatccaacc 300
 actcattaaa tcatcaataa gcaccagga atttgtggta gaggtacctg taccagttca 360
 gtgtctgaaa actgcgggta acaaaccttt gtgtaccgga taagtgatgt gtgtgtgtgt 420
 gagtg 425

<210> 27219
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-H2

 <400> 27219

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 aggtggttgc tcctcctggc cttgggtgct gaggcgacc tctgcgtcac gcgtagcagg 120
 accttcaaag ggtggtgcc aagagcgag aactgcatca ccgtctgcaa gagcgagggc 180
 aataccggcg ggttctgcaa gctcggggct tgcattgtgca ccaaagagtg tgtccgaagt 240
 actgacgctg ctggtgctaa taaagcccca cagcagcatt tgagttgatg agtagtaaag 300
 aagaacgctt ttgttatgcc aacgcattgct ctagaattcg aggccgaaat gacaaaaaat 360
 aatgaattt tgtactct 378

<210> 27220
 <211> 240

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-H3

 <400> 27220

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 ctactgggtg ctgctcgatc gatcgatgat tccatgtaca tatttgtagt ggggatgctg 120
 cgggtccaggc tatagagttt gagggtgata tacttgctca tcagatcagt ttgctgctg 180
 taagactggt tttggttttg gttttgctat aatcgtgata tatatattcc gatgtacagt 240

<210> 27221
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-H4

 <400> 27221

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 ctgatngttg aagatgaaat tgcagaagca atgctgcggc ctttatagtt gcaacatgca 120
 gcagatgaag cagttgtatt agaggctgct ctaattgctc agcttattac actta 175

<210> 27222
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-G1

 <400> 27222

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 ggagtagata gactcacaaa taccaggaga agcctccccg caagtcgttc aggtatctgt 120
 ctgcaggaac tctcggctcg aatggtgctt ttagcaaggc tgccaatttt gtgtagtatt 180
 ttgtcaaaac tgaaggcctt tggattagtt tgtgctggtc agctagaaac ctggaaacaa 240
 caaacttggt gagtagcgat gtttacaaga aatgtagcct ttatgggctc ttgtaaccct 300
 ttctctctta tcatattttg ttaaagaagc aaaatatcca ccaaaactc 349

<210> 27223
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-H6

 <400> 27223

 cggacgcgtg ggcggccaca gagcatgata ataccattgc cccttgaagg ctgtctcgag 60
 agcgagcttc tacgccctct atgattgcct tgcttgcctt cctctactcg tccggcccag 120
 ccatggccac catcctggag accatacaga aggcgaggct cctgcactca caggccgctc 180
 aaggacgagc tgccaacctt atgcggcggc ggcagacagg agagccacct cacaggcctg 240
 cggaagctgc tgaccgcctt ctccggcaag atccagccca tc 282

<210> 27224
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-H7

 <400> 27224

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 cagaaagcga ggatagtttt gctagcgtgc agtctagtga accatcaaca gcaagcactg 120
 atactaggga tcaaacaaat gaaatctcaa accgtgcaaa tatgtcctct agaacaacgg 180
 acttaaata gtcaggatth atatctcaag tgctcaagca ggcttcagaa attgaaagtt 240
 tgaaacaaga aaatctgagg ttggtggaag agaaggatgg actggaaatt catagtcaaa 300
 agttggcgga ggaatcatcc tatgctaaag aattggcttc tgctgctgca attgaactta 360
 agaaattggc agaagaagtc actaggctnt cttatgaaaa cgcanagctg aatgcagact 420
 tagctgcggc aagagagcta aatgcatcga tgtca 455

<210> 27225
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-E11

<400> 27225

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tgggtccactc ggtgcttatg agcttcgtga tgagaagcat aagctgaaat tggagaagga 120

gagtttagaa caccagatga agctgatgac atcgactcca acctacatgc ctcatccgac 180

cttgatgctg gcgcctttcc ctcaggcacc cctagcgctg ttccatgcc aggggcaagc 240

tgcattggcag aagctgatga tgcctttgt cagctatccg gggtagccaa tgtggcagtt 300

ccatgccggc ttcagaggtc gacacctcga agaacagtga agcgtgccct cctgttgcatt 360

aattgcttcg actagcggct ggtcctgctc acaccatgcg aattagtcgc aactgaatcc 420

<210> 27226

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E2

<400> 27226

gaactcaagg aaaccttgca ggatattcctt ggggaaaaca aaactatttt ggttgaacag 60

aagagtgact acagcatcat gggaggatta gtgattgaat tcgggcagaa ggtgcttgat 120

atctcaatca ggaacagggc gaagcaaatg gaggcgttct tgaggcaacc acttgacttc 180

taacagcctt ttggataaaa gaagcatcat cggaatgcag aggctgtcct gttgaagggtt 240

ttcctgtgtc tgcaatttta atctgtcctt ttgaataaaa tgtttcctct aataagtga 300

gggcactgtt tttattgtct cgtgggccac agatgcctgc tgaacaattt atgttcattt 360

cttcttttct taaaaaagca tgcactaaga acatgaatga tgcattgtcat gaaaagtgtt 420

gaaagtcatt gaacctatga gcttctatgc 450

<210> 27227

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-E4

<400> 27227

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 ggggggggtct ctatcaaaga aaccatcacc gctgccatca taccgaatgc atgggtctgca 120
 ctgaatgttg gtgcacccca ttgtaaaggg tatggaatgc ttatcctaag agagtggaaa 180
 gttacatgaa aaatgtaaaa acattgatgt taaaattagt caatgatata tagggaagtc 240
 tccaaaccat tgtgatgaag atatgagatt ggcacggctc gtccgacagt tgatctgggt 300
 gacaagtgct gtgtgcttgt atgcaccact tgctgtgagg atgtgggcat ataaccatac 360
 angagtgatg caca 374

<210> 27228

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E5

<400> 27228

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 aagcgagggtg gcagggcacc ggtgccggcc aagaagaaga cggataaagt gacgaaccct 120
 ctgttcgaga aaaggccgaa gcagttcggc atcggcggcg cgttcgctcc caagaaggac 180
 ctgcaccgat tcgtcaagtg gccaagggtc gtgcgcatcc agcgccagcg tcgcatcctc 240
 aagcagcgcc tcaagggtgc tccggcgctc aaccagttca cccgcaccct cgacaagaac 300
 ctcgctacca acctgttcaa gatgcttctt aagtaccggc ccgaagacaa ggctgccaag 360
 aaggagaggc ttctgaagag ggcccaggct gagaatgaag gaaaaactgt tgaatccaag 420
 aaaccaattg ttgtgaagta tggccttaac catgtga 457

<210> 27229

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E6

<400> 27229

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 tgctttcttc aagcagcatg gatggaccga tggcgggaag gttgaggcaa aatacacatc 120

aagagccgct gaactgtaca ggcagatgct taccaaggag gtcgctaaga gcgccacgac 180
 cgataatgcc ctgccatcct cacctgtcgc atctgaggct tccaagccgc catccgatga 240
 cttccctgaa ttcaaactcc cagatgtggc agcaccaccg gcagagaatc tgaatgggaa 300
 gcatgagccc aagtccecca aagctgctcc tcgttcacca aaggccgcta ctcatccac 360
 ctttgccact tctgtgaaga agc 383

<210> 27230
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-E7
 <400> 27230

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 tggtttgcta atcttgctat taagatcaat gccaaagttg gaggaagaaa ctagaattt 120
 gctaatccca aataaagctt accgggtggt acaattgaac caacaattat atttggtgct 180
 gatgtcacac accctgccgt tctagatgat accgccccct ccattgcttc cgttggtgcc 240
 tccaagact ggccaaggt ggctaactat aatgggattg tccgtgcaca tggtcacgt 300
 aaagagctca tcaatggcct ggaagacatt gtcaaggaac tcctacttgc att 353

<210> 27231
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-E8
 <400> 27231

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 agcctgaacc ttgaagcgc ccgtagtgca gtgcagtgc gcagtgtgct accctcctca 120
 gtccctctac tccatcaca acgctagtct tcctctaaag agatctttgg caacgaccga 180
 cagctcggag cgagtctcag aagcgatggc gtcaaagagg ctgctgctgg cggcgctgtg 240
 cgtggtggct gctgcgctgc tcgccgtgcg gtcggagtcc cacggcctgt aggacttcgc 300
 aagcagcgac gcgacgccg agatgcatac cttcttcaag cccgaggcc 349

<210> 27232
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-E9

 <400> 27232

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 attgatgcgt gtcatagtgg gactgcactt gatttgcctt atctctgcag aatgaacagg 120
 attgggcaat atgtatggga agatcaccca cgcgatctg gtgtctggaa aggactagt 180
 ggtggggaag ctatttcctt tagtggttgc gatgatgatc agacctctgc agatacctat 240
 gctttatcaa agatcacttc gactggtgca atgacattct gcttcatcca agctattgaa 300
 cgtggacagg gcaccaccta cggtagtata ctgaactcta tgcgttccac aatacgcaac 360
 acaggtgact caacgggtgt aagtggctgt actgttacat cactaattac aatgct 416

<210> 27233
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-F10

 <400> 27233

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 taaccaaggc gcttcgagct ggtcttggga ggagaaggac cactgcctgg aggagacgga 120
 gaagtcgttc tcttactcag gaggcctcct ccgccatata ttcacctgat ctatcgttgc 180
 tggttgatcc agtctcaaac gctgtaaata catagtcctt tgactgttaa aactttatta 240
 ctggtgaggg ggatctcctc cccaggtac ggtttacctg cattcaagtt gccagtgctc 300
 ttactggatt gctggtgttt ggtgtttctg tgatgcaatc tgtattctgt aggtcatttc 360
 atgactaata gagtcgaccc cttccaatgc cgtcaatggc aagagctctt ccaatcaaca 420
 tgc 423

<210> 27234
 <211> 312
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F11

<400> 27234

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aaaaaaaaagaa aaaaaagaaa aaaaaaaaaa acaaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa 120

aaacaaaaaa aaaaaaaaaa aacaaaaaaa aataatatac ctaaaacaaa accaaaacct 180

caaaatataa aaaactaata aaactgaaaa aacatttaac ataccaaaaa taaaaataac 240

taaaaaaaat cataaaaaaa aacaaaacac ttaaaaatca aataaaacac aaaaaaaaaa 300

ccctatcaaa ca 312

<210> 27235

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F12

<400> 27235

gcgcccactc gttcgtccac tegtccgccc actcgtccgc ccactcgttc gccacgcgt 60

cgggctcgtg gaggagtcaa ttcattgcat tgtattaggg gttttctcag tggcaattat 120

gtctgaagat attaagttca aattcaaagt gaaaagtgat ggaggaaaat ttgtgagcct 180

cacagataaa aaacatgtga ttgaaagagg aacaatgata aggttttctg tcaaaagggt 240

ggatacagaa atgagttgtc atattactgg atctttaatc ccacctcaca ctggatgcat 300

gcgttggttg tcagtacatg atcctaaata tgcattcagaa ctcaaaagtg gtgaaagtag 360

atcaagggat acaagcatca aaattgagca gaatgaacaa gaacatagaa tactcaagaa 420

tgaagatggt atg 433

<210> 27236

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F4

<400> 27236

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 atctggaagg caaacgcgta ttggagcttg gatgtggaca tggctccctt ggcatttttg 180
 ccggtctcaa ggggtgctgac ctgattcatt tccaagattt caatgcctac gtgcttaggt 240
 gcttgactat accaaatgta caagtcaatc ttttcaagga ttcaccacaa ggaacatgta 300
 ca 302

<210> 27237
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F5

<400> 27237
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 ggcgcccctca ctctcgccg ccatgtccac ctgcgccctt ctagccagca gcggcagcag 180
 ccgcaggccg ctaggcgctg cccacacccg acgggctgga ctgcgcgtgg ccgcgcttaa 240
 gtacgaccct gccaaagggtg cgccgcagaa cgaccgggtt ctgctccgtc ttgagcagat 300
 ccctgagaaa tctgctggcg gtgtattgct accaaaatct gctgttaagt ttgagagata 360
 tctgatgggt gagattctat cgatcgggtg tgaagtcagt gaagttgagg ctgtgaagaa 420
 gggttctcttc tcagacatca atgct 445

<210> 27238
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-F6

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 cagcaagtcg tcgtcgtcct cgagctcggc gcagcgggca gctgccgcac tgctcgtggc 180

cgccgcgctg gcggtgtccg tcttgggtgt gggcgcgccg gcggtgtgcg acatgagcaa 240
cgagcagttc atgtcgtgcc agcccgcggc ggccaagacg acggacccgc cggccgcgcc 300
gtcgcaggcg tgctgcgacg cgctggcggn ggccgacctc aagtgcctgt gcggtacaaa 360
gaactcgccg tggatgggcg tctacaacat cgaccctcag cgcgccatgg agcttt 416

<210> 27239

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E10

<400> 27239

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gattctgaga aaccaagcaa tcagagcttt gccatgattg tgaaatctca cacattaagg 120
ctccctgtcg gtaatccgga tgggacaatc attataagaa ccgaccagta caacagagat 180
gatctccgag ttgactatat gtatgcaaag ttctttgtta tcaagtcaat tggtgaggca 240
gatgtgcaca aatcgataaa gtatgggtgta tgggtcaagtt cctccaatgg aaacatcaag 300
ctagatagcg cattcagggg tgctgacagg atatcaagga ggcattctac taagtgtcca 360
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<210> 27240

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C4

<400> 27240

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gggcgctctt cttcgaggag attttcaagg acctgctcga ctcgggccag tacgaggatt 120
ctgcaagaga actcgatgcg gcactccttg agctcacttc aagtcccag ttccctaagg 180
gtcttgctgc tgtacgttca gatttgctat ccatggcaag ggtgttggtt atgcgacatt 240
ttctgaaacc aaacacaatg agcgtggaaa acttttgtgc tcttcttgaa gcggttgctg 300
gcatggatat tgatggcatt tgtgctagtg gtgcgcacaa cgcagcgag tatgctgagt 360

caatattgaa tatgaataca tcatg

385

<210> 27241

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C5

<400> 27241

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tgaatcccg ctcctcctgta ctgcatattg ccagcagttt gtcttctcac tgggaagttc 120
atcatcccaa agattagtaa cctagagagt gtttggttta tatcgctctt tatctcaatc 180
tttgccactg gtatccttga gatgaggtgg agtggtggtg gcattgatga atggtggagg 240
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ctcctgaagg tgcttgctgg tatcgacacg agcttcaactg tcacctctaa ggccactgac 360
gaagaatgtg attttgccga gctctacatg ttcaagtgga caacgcttct gatcccaaca 420
accactatct tgatca 436

<210> 27242

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C6

<400> 27242

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gatgcattcg agaatgacta cgttgaggaa ccactccctg aggaagagca agtgcgctccc 120
ttctccgagg atgttgatgc cagcgcgaag gaaatggatg ctgccgcaga agcggaggct 180
actggaacaa ctgcaggcgc tgagaagagt ggtgatgtcg ctgctgtgtg aaggcgggtg 240
ctacaacctg aagaggtctt ttccggacac ttgaataagg ttaccttggc tagctatcta 300
ctacaatcat gggcatcttt atacaggttt gatgtatcta ccatcgaagg ttatgctatt 360
attgttcgct gaatct 376

<210> 27243
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C7

<400> 27243

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 cgatgacaag ctggggggcgc tctgcatgca atgggttgga gacaaggtct tttcaatcag 180
 agatgctgcc gctaacaact tgaagcgcct tgcagaagag tttgggtccag agtgggcaat 240
 gcagcatata atccctcagg tgctggagaa gatcaacaac ccacactatt tataccgcat 300
 gacgattctg caggcaatct ccttgctagc tcctgtcatg ggtgcagaga tcacctgtca 360
 aaagctgctt ccagtcgtca ttaattcttc gaaggacagg gttcccaaca tcaagttcaa 420
 tgttgcgaaa gtactacagt cacttgtacc gatcctc 457

<210> 27244
 <211> 119
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C8

<400> 27244

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 taaccactac tactattctt caacaacaca ccttacacca ctcccatacc tcacttcaa 119

<210> 27245
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C9

<400> 27245

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 aattgtggcc atacaagaag gaatcgaatg tagaacgatg atgtacgaga tagacttggg 120
 gtagcggtag caccaattga agaaaacctt gttcaaaatc aaaaccgatt gagatggttt 180

agactttaga catgtccaac agagagatct atagaggcac cattccgtag tgggatctta 240
acacatgata atactaggaa aa 262

<210> 27246
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-038-Q1-K1-D1

<400> 27246

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gaatcgggtgg gtgaacatgc tgctgtgac ttatccacag agccataatt accaacaaga 120
tgattttccac aaagctgttg cacggacctt gagccaagga tcagcaccta tgagcatgga 180
tttccatcca cttcaacaaa ctcttcttct tgttggtacc aatggtggcg acattggatt 240
gtgggatgtt ggtaccaaag agagactcgt tgtaagaaac ttcaaagtct gggaccttgg 300
taaagtaca atgaccctac aggcagcact ggttaaggac ccaactgtgt cagttaatcg 360
cataatatgg agtcctgatg gaaccttggt tgggtgtgctt attcaggcat attgacagat 420
tattcctat 429

<210> 27247
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D10

<400> 27247

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tgtttgacgt caagaatgaa ttcaagtcaa tgtttctgag ctttgccagt tccaagaatg 120
ccgccatgga gatcccacct gaaaactacc tcattgtcac aaaaaatgga aatgtgtgcc 180
tggtcattct tgatggaacg gctgccaagc tgagtttcaa cgtaattgga gacatcacga 240
tgcgatgatca gatggtgatc tatgacaacg agaaatcgca gctgggatgg tcgcgttggg 300
catgcactat gagcgccaag tctattctgt cttcctttcc ctgagctcag ttctatgtac 360

ttctgataga gtttaagaaa atcactatat caaaccttct cgcaatgcat gaatttccta 420
actg 424

<210> 27248
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D11

<400> 27248

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gttgggaggt ccaaattctt cattaaaatc aacaaacaag aacaatagca gctcttttgg 120
ggatcgaata gggtccctct tttttgctac aattggttgt ggagcgcaag ttgaggcctt 180
agaaggatct gagccacaaa agattagtgt ttgctccacc aataatccag ttgacgcctc 240
attctttgaa tcctttgaag catcacactc caagcgtgat ttaactagct ccattgcaga 300
gaaacttggg gtccgagctc ctctgttag aatggatagc caagcaaaat atggtgccct 360
agcacgtggg gatggtgcca tttttctgcy catcccgcac aaaagttaca tagaaacagt 420
ttgggatcat gca 433

<210> 27249
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D12

<400> 27249

gcgatcgagt acagtcggct aggtaatctg gtggtagcac gacatggcgg ccaccagcag 60
cgggtcgtca gcgtcctcga gtcggcgca gcgggcagct gccgcactgc tcgtggccgc 120
cgccgtggcg gtgtccgtcc tgggtgtggg cgccggcgcg gtgtgcgaca tgagcaacga 180
gcagttcatg tcgtgccagc ccgcggcggc caagacgacg gaccgcggcg ccgcgccgtc 240
gcaggcgtgc tgcgacgcgc tggcgggggc ggacctcaag tgctgtgcy gctacaagaa 300
ctcgccgtgg atgggcgtct acaacatcga cccaagcgc gccatggagc ttccggccaa 360
gtgcccctc gccacgccgt ccgactgcta gcagtgtgct agccaagcca agcc 414

<210> 27250
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-D2

 <400> 27250

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 gaagggggcg gccccgcgg cacaggagac ggccgtgcac atcgtgtacg ttgaccgccc 120
 cgaggacgcc gaccctgagg agttccacat ccgcaccctc acccccgccc tcggcagcga 180
 acagaaggcc agggacgcag tgctctacca ctacaagaac gccgccagcg gcttctccgc 240
 gaagctcacc ccccgagcagg tcaaggatct caaggagcaa ccaggtgttc tccaggttgt 300
 gccgagccag acttaccagc tacatggccc tgggtctggc actcaccagg gcacgacaca 360
 caccttgggc cttatgtgaa agcgtatgag aatcaagaag att 403

<210> 27251
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-D3

 <400> 27251

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 ggaggatctt tgcaatctcc tacactacaa caaataaccc atgaccatcc acgattactg 120
 aattgcctcc tgctttccag agtgcaatat aatgcacatt ggctgcactg tatgctgtta 180
 aactgacac tgttactcat aacactttca acacacaaac ctcttcaggc ctttatgcat 240
 taacatatat cgccactact atta 264

<210> 27252
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-D5

 <400> 27252

accgagtacg agcaaccgct tgcgtcagac tcacactgac ggagagtgat cactgattgc 60
 gggatcatggc aaccgtaact gaggaagttg ctccggctcg caccgtctcc gatgagccgg 120
 cgccggaagc ggcgaatgag gtgggtggaga agcccgagga ggggaagaag cccgactagg 180
 aggggtgacga gaggaagaag gccgaccccg ccgtcgagaa ggagaagaag gcgaggaagc 240
 cgcgaggacag gaagcccaag tccgtcgggc tgcaccaccc gccctatttc gaggtgagca 300
 aagatgccgt cgtegtcgtc gttegtcttg tcggttactc atccgtgctt ggattctcat 360
 tctgatgacg ggtegtgtg tctgctggg acctgaggtt at 402

<210> 27253
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-D6
 <400> 27253

cggacgcgtg ggcggacgcg tgggcgacga tacattcaga tccagaagat ggcacttccc 60
 tgtggtacaa ttttacgac tccttgtct gggcaccatt cctgggtcaaa gctaaaatat 120
 ttgaggacga cgatggagtt tctactgctg atctccagct gcaccttgac gttctcgaga 180
 cagactggac tagtcaatgg gagaagtctg attacgcggt gatatccacg ggccaatggt 240
 tcttcaagac tgcagtgtac tgggagaatg gagctgcgat tggctgccac tcctgccaga 300
 acaaaaccct ggaagagagg cctnccgagt actccttccg cagggcactc aggggtggcct 360
 tccagttcat cacattctca ccttacaagc cag 393

<210> 27254
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-D7
 <400> 27254

ctttgtttta tgtagaagaa aaggacatgg ctgatggtgg gctttcgatg tcatacctct 60
 tccgtcttcc tacatcttct tcggtgcgct tctccaaaca aacagatgaa gatgggtgaag 120
 gaattcctct aagatcgtcc gaatcattcc ggtcaccaca ttaacgcatg tttgctaata 180

attaatttgc acagagttag ggggtgggtat tatatagata atgctatcag tgagcttgta 240
 ctaagggtag gatggatgga ccctcttttg ctttggcaga attgtatatg tatgccaac 300
 atcttgtgga actcccaata tatttctctt ggctgtcgtg tgtgat 346

<210> 27255
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-D9

 <400> 27255

gcgcatgtac tatggcacac cattctacgg cggatatggc tatgccttcc cggtgccaca 60
 cggaaacatg tgcgctgcag cgtatggcac gtaccgcta tatggcaacc agcagctagt 120
 gagctagaga gctccctcc gacgtgtccc ctctgacggg aaacaaaggt tttggtccg 180
 tgagcatagt agcgtcaggt gagaagggtgc ctttataagg ctgtcctaag aagtgggcga 240
 gatatgttgt tgcacgnta tcgttatggt gcctgtaact gttgtgtgtg ccgtgtgcgt 300
 tcggaagaat tggatggaat ggaactcgtg gcttagtgta gtacatcaa gagtcatgtt 360
 attctttcaa gaaattttga cttggttaata aataaactat ngtttgtgcg tcc 413

<210> 27256
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-E1

 <400> 27256

ctcgtctgtt tctctacgg ccgccaccat cgctcgcga ccgctgccg ctccgctcga 60
 aagggtttag tgaagatttt ttgaagccga gaagatggtg ctgaagacgg aactctgccg 120
 ctttagtggc cagaagatct atcctgggaa aggcattcgg tttattcgtg ctgattctca 180
 ggttttcctt ttgccaact cgaaatgcaa gcgctacttc cacaaccgcc tgaagcctgc 240
 aaagcttacc tggacagcaa tgtacaggaa gcagcacaag aaggacattc atgctgaagc 300
 tgtcaagaag aggcgccgcg ctaccaagaa gccatactcg aggtccattt ggggtgct 358

<210> 27257
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C3

<400> 27257

aacattttca agttagctca aggagaatac atagctccag agaagattga gaatgtctat 60
 gctaggtgca agttcattgc tcaatgcttt atatatggtg atagtttcaa ctcttcctta 120
 gttgccattg tagcagtcga accggagggtg ttgaaggctt gggctgcatc agaaggaatc 180
 cagtacgagg acttgagaca gctctgtgct gatcctagag caacagctgc tgtcctggct 240
 gatatggatt ccattgcgaa ggaagcacag ctgagagggtt tcgagtttgc taaagcggtt 300
 actcttggtg ctgagccatt cacattggat aatggccttc tcacccaac attcaaggctc 360
 aaaaaggcgc aagccaaagc atactttgca aagaaatctc aaacatgtat tca 413

<210> 27258
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-A8

<400> 27258

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 tggcattctc gtggtccgtt atccgggaca ccgtcacccc gatcaacctg ttcggatatg 120
 ggatcgcggtt tttaggggtg gcctactaca atcatgtcaa gctgcaggcg ctcaaggcta 180
 aggaggccca gaagaaagcc gcacaggctg atgaggaggt tggatcgctc ttgcaggagc 240
 gcgatggaca cggtgatcat aagagcgaca atcaggctta gactgtcaga tctgatcctg 300
 gccttcccat attgacttca gcgccagaa gaattcttga tctgntgttg cggcactacg 360
 caactcaacg agatttttgt cgatgcacat tggggaagat cttgagcaac t 411

<210> 27259
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A9

<400> 27259

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aactccaagg gtgcatcacc gagccggtag acggggaggt ctgcgggctt cggcttcggt 120
acctttctct tgcgaaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 180
gacggccgta acatcacctg taaccaggcc cagtcccgtg gcggtggcgg tggcggcggt 240
ggctacggcg gcggtcgcgg cgggcggcgc tatggtggcg ggcgcggtga cggcggttat 300
ggcgcgggtg gcggtaccg cggtcggcgc gaggggtgtg cggcggttac ggaagcgggtg 360
gcggttacag cggtcggcgc gaggggtgtg gtggc 395

<210> 27260

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B1

<400> 27260

gaaaaaaaaa aagaaaattt aaaaaaaaaa aaggcccaac caaaagggcg gacgaacaaa 60
aaggaaaaag caaaacaaag caggaaagaa agagaaaaca aaagacaaaa aaggcacaaa 120
aaaaaaaaac aaaggacaac agaaaaaaaa ggacaaaaag gagaaaaaaaa caagagaaaa 180
aaaaaaaaaa aacaaaaaga acaaaaaaaaa caacaaaaac acaaagagca aaaataaaaa 240
ggacaaaaaa acaacagaaa aagaaaaaag aagaaaaaca aaagaacgaa gaaaaaacac 300
aacaggaaaag agaagaaaaa aagacaagag 330

<210> 27261

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B10

<400> 27261

gcgcccacgc gtccgcggac gcgtgggacc tgggtgcccta ccctaggatc cacttcatgc 60

tggcgctccta cgctccagtc atttctgctg agaaggccta ccacgagcag ctgtccgtgg 120
 ccgaaatcac caacagcgcc ttcgagccat cctccatgat ggccaagtgc gacccccgcc 180
 atggcaagta catggcatgc tgcctcatgt accgtggtga tgtggttccc aaggacgtga 240
 acgctgctgt ggccacaatc aagaccaagc gcaccatcca gttcgtggac tggtgcccga 300
 ctggcttcaa gtgcggaatc aactaccagc cttccagcgt cgtccccggc ggtgacctgg 360
 ccaaggtgca gcgtgccgtg tgcattgatct ncaactccac cagtgttgtg gaggtcttct 420
 cccgcattga ccaca 435

<210> 27262
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-B11
 <400> 27262

gttcccaactg tcagtaacac aaacagaggt atactaaaaa cctctgaaaa gtcgagttgt 60
 gattctgctg agccccgaag gactacttct gattctgctg aacctagacg atctaacagg 120
 cgaattcaac caacttcaag gttactagag ggcttgcaaa gttccctcgt aatctcgaaa 180
 gttcctggcg agaaggttcc taggagcaat tacaaaagtg catcctcaag agggagaact 240
 caagctcatg ggtgagtga ggcaccacat agctcatagc tgcttttggg gggacagctc 300
 tcgtgtacat agctgtagcc gtccagtatg gaaggaggat aggggttgag taggaagtct 360
 ttattggagc gcatggattc agatgtatta taaactaact taagtgcatt gtgttaacct 420
 tttctttt 428

<210> 27263
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-B2
 <400> 27263

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 gcgttggaac ctgtatcggg tagtccttgc ctgcaagggt cttgttgtt tgttttgggt 120

gtcgcagcatc gcatgttctg cttctggatc cagatctgga gaaatcgoga agtcgtcgtc 180
 gttegggttcg gagcggatct gaggcgacga tagatggagg cggcgggatac tctcggtctg 240
 cagtectgct ccacctogat ggatgatgtc tctgcgctga taattattgg atcaatttcg 300
 ataattatta gtagatctat gagatatgcc gcctggaaga ggcgaggtaa gctgcagcat 360
 gt 362

<210> 27264
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-B3

<400> 27264
 cggacgcgtg ggcaaggacc atgggtggtgt gctcgacggg acggcccttg tgctgtggga 60
 gtggtgcgag ggagacaacc agcgcctggaa gattgttccc tggatgaacaa ggaaatgtgt 120
 gaccgagccc gcaccaagga ggagctcctg ccgtaataag tgaagtgatt ggtactgaag 180
 tttctggaaa taagaggctc ttccgagatg cctgtttgtg tgagtatttg cgtttccatt 240
 ccgttttcat gataataaaa cgcattgatt attaatatat gtaatgtgat gctacactga 300
 gtggcagcgt tggatatatat ttgtaagaag taagaaccca ttgttggttg actaagcgtg 360
 acgagtgatg tactgatgta tngaaccttg cttgatg 397

<210> 27265
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B4

<400> 27265
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 ctgatcgtcg tagcgatgca gacggaggcg atgccgctcg tccacaagtt caagctcgtc 120
 gaggcgcccg cccacgaatc cacatttctt aaagggtgcc catggggttag gtaccatggc 180
 aactacaaag gcctccacat tgaccttgta ttgcctggaa aggatgctgt tttaggagtc 240
 gacagtgttg gtacgggtatc ggcagctctt ttgactagtt tttccattca aacattgaag 300

ccagacctta tcattaatgc tggcactgct g

331

<210> 27266

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B6

<400> 27266

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cgccctggca tgggcagcgc ccaggacccc ggcactggcg ccgtccgccc cgtcgtcttc 120
cttccagggc gcgtaacgg ccagtacatc atcgagggac tctcctccgg gttcatgttc 180
ctccttggcg gcattggcat catcctcttc gacctcgccg tcgaccgcac gaggccccgg 240
agcctccgcy tctcgtttgg aagcgccggc gcagtcgccg ttgtcatcgc ctacgccatg 300
gccatgctct tctccgcat caagatcccc ggctacctct ggtgaggttg ataaatcttg 360
cctgttaact agaccagatc cgtcgcgaga tctcgctgca tctaaataga cctgcgtgct 420
gtgcagtgtg gactgtgctc tntcatntg tcaattaatg tt 462

<210> 27267

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B7

<400> 27267

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tgctgcagct agagcatata ggagggaggt gttcgaccat tacttttccg atgtccaaga 120
aattcccaag gtgtctagtt ggttacatga gcatcatgat agtttgtggt atcgtagtgg 180
gtttaatcca gccatcaagt gtgactatgt taccaacaac atagcagaag tgttcaacaa 240
ttggattaag gattggaaag atctgcctgt ttgtgacttg gctgacaaga taaggaagga 300
aatcatggag ttgtttcaaa agaggaagga gataggacag aggttgcaag gtcgaatact 360
accctncgtg gtccatatcc tncatgtaag gactagaggt ttaggtcact taacagttaa 420

gaaagctgac aattacattg caaaggtgag ggataat

457

<210> 27268

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B8

<400> 27268

gaagtcccg c aagcaaata aagagcggaa gaacagggcc aagaagatcc gtggtgtcaa 60
gaggaccaag gctggtgacg ccaagaagaa gtaaacagtc atttatattt ctgtattact 120
gtcctgaact ctgggtgggc gtctagttgc aatgtcataa ttatggtcgt gtttaggtttt 180
gttccgcact cagcagtaag tgaagttttg taattcctgg atgtgaacct acccgattg 240
gctgtagcat gttgtgagat gagaaggcta ttttgtcatg cagttgtgtc atttgcaagc 300
caatccattt tgtcatgcag ttgtcatttg ctcacctctg atccatatca gctttgatcg 360
tgctgcattt gcgcacaaaaa 380

<210> 27269

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B9

<400> 27269

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gcaatgcgtg tgagatggct gtggtatgga tgcagaacca acttgcccag aacaagacac 120
aggagctcat cctgaactac attaatcagc tttgcgagcg tcttccgagt ccaatgggag 180
aatcagccgt ggactgtggc agtcttgcgt ccatgcctga cattgcgttc accattggag 240
gcaataagtt caagctgaaa ccagagcagt acattctgaa ggttggtgaa ngacaggctg 300
cccagtgcac cagcggattc acagctatgg atatcccacc acccgtggc cctctctgga 360
tcttgggtga tgttttcatg ggagtctacc acaccgtctt cgactatggc aagc 414

<210> 27270

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-C10

 <400> 27270

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 gggctgatcc atgcacgata cattctgacc agtaaagggc tggctgcaat gctggagaag 120
 tataggaact atgacttcgg gcggtgcccg cgtgtttact gctgtgggtca accatgcctg 180
 ccggttggac aatcagatat tcatcgatct agtaccgtga aaatatactg cccaagtgt 240
 gaagacatct actaccacg gtccaagtac caaggcaaca tcgacggcgc atattttggg 300
 acaacgttcc ctcacctgtt cctgatgaca tacgagcacc tcaagctaca gaagcccttg 360
 cagcgctatg ttcctcgtgt ctttggcttc aagctccata agccatgagc ctcatgtatt 420
 tggcttcaag c 431

<210> 27271
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-038-Q1-K1-A7

 <400> 27271

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 ggggacctgt atatcacagg agagagctac gctggccact acgttccaca gttagcccag 120
 cgcattggtg agttcaacaa gaaggagaag ctattcaacc tgaaaggcat tgctcttggc 180
 aacctgtgac tggagtcttc caccgacttc aactcgcggg ccgagttctt ctggtcgcac 240
 ggctgatat cggactccac ctacaacatc ttcacgacgg tgtgcaacta ctgcgggtac 300
 gtgagcgagt actaccgagg ctccctgagc acggcctgcy acaggggtgat gagccaggtg 360
 gcgagggaga cgagcagggt cgtcgacaag tacgacgtca ccctggacgt ctgcatcttc 420
 gtcggtgctc atgcagtccc aggtcctcg 449

<210> 27272
 <211> 318
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C2

<400> 27272

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taggaggaca ataatcacgc tgaataagta ggccccacat cacagtcctt ctggcaactg 120

cacatggttt tatcatttta tttttaaaat tgttttttat ggacattatc tcgatcacgt 180

tcctgccaca gaagctcatc aagcatcgga cggcctgtag ttgtagacgt gaaagcttgc 240

atgtggggcc acggcgtcga ggaagatcct ggccgtcgcc ttctggggcca cgcagcctg 300

ctccttctcc acgagcgc 318

<210> 27273

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-H12

<400> 27273

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gcttgtgggt catcgtaact nctgttttgt gcatgttgta ccacagggtat ctagcagggtc 120

acttaagaag gccattggat tcaaaactca tgtacgctac tgtgatgcat tgatgggtcct 180

gaagtcattg ataattgtcaa aggtaccctt tagatcaagc attccttcca agttgtccaa 240

atgttaggca tggaaggaac atggagatag gaggtggcaa tggatgaatgg agtntatttt 300

gttcgtataa tacttttcat tcatngtctc atttacattt aatacccttc tcaaaccctt 360

taaattatct atgatctatc tatg 384

<210> 27274

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H2

<400> 27274

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agggcgaggt gcgagctcca ctccccacac ctcagaagaa aaaggtgatg gcgcaactgc 120
 cgccgcgggc gccgagcgcc ggcgcgcagg accactggcc gccggcggcg ggggagttcc 180
 tgggcttcgc cgcggccagg cgcggcgcgc accgccgctc cgcgagcgac tcggccgcgt 240
 tcctcgaggc cgtgcccatt gacgacgacg tcgtcattgg cggcggcagc tcggcggcgc 300
 acgacttcga ccgtctcgac caccgaccagc ttctgtccat gttctccgac gtcgacgtct 360
 tcgtcttcgt ctctgtctac ggcagcgccg gtgagagggc gcagcttatg gacgcggtgg 420
 gtg 423

<210> 27275
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H3

<400> 27275

gacaagcagt ggctggacaa gaatgcatct tacatggact tcaatgaggt gctgaagtcg 60
 acgacgagcc cagctggaga gggagcttat gctggacgat gtcattccga tcgaagacat 120
 gccgtcatac agcctgcttt gctagtaacc aaaataccaa attcgccgga gaacagaact 180
 gagttgatgg ttcaactgta tagtacctcc ctttgtctga tttctgggag gatttttttt 240
 tagcaacaaa gtagagtgtc gacgtactgg tatcatgctt aatttgggct aatgatggtg 300
 atatgcacaa aataaaaata tatattat 328

<210> 27276
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H4

<400> 27276

cccacgcgtc cgccgccttc ttctttctct tctttctctc ctctgccctt gcttgtcgtt 60
 tgctcgtgct cccccacccc ctttctgatt cagcaagggc tccttccgcg gcgcggcgcg 120
 tcgccatggg caactgctgg ggcgccaaga tcagctccga cagcccgtcc cgcggcgcct 180
 catccccgtc agggacggcg tccaagttgg cgagcaggaa cggggcggcg gcagccctga 240

gcgggtgcag cagccacgcg tcgtccgcgt ccatgctgcc gacgccccgc agcgaggacg 300
 agatcctgga gtcggccaac gtcagggcct tcagcttcaa cgagctgaag accgtcacca 360
 ggaacttcag gccggacagc gtgctgggcg aaggcggggtt cggatccgt 409

<210> 27277
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H6

<400> 27277

cgtccgaaat aaaaacattt cgggtctcatc ttcttcacac tccatcctcc atcactccag 60
 ctgggtggtc taggaccgac ttagcgaatt tcgaagcaag ggactgaaga ggaacctgag 120
 gaaggcgaat atgatctacc ggaactggga gctgttctcg tccacagtcg tcatttgggt 180
 cggcttcgcc accgtcagcc tcgccgctat ct 212

<210> 27278
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H8

<400> 27278

cggacgcgtg ggcggacgcg tgggccggag atcagtagtg caagtgaag ctttcaaccg 60
 ggtccagcaa catcagttga tgattcagta tcaatgtcac aacatttgcc tgcttcattt 120
 ggtgatgctt cacggatcag cagcactgat attgttgggtg cacctagtgt ccaagagaca 180
 gatgacatgc aggttgatag tcatgttgct gaggactcag agccagaaaa cgatgatctt 240
 tatttatcaa attgtcgaat ttctctgggtg ggttttgaag agtaagagtt ggtaatgctt 300
 gtcatgctga tacgta 316

<210> 27279
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H9

<400> 27279

ctcaaaaggc aaacattgat gcagcgggtga ataagttttc agataacttc acaaggatgt 60

tgttccatta tgatggtcgg acaactgagt gggatgaatt tgagtgggtca aaaagggccg 120

tccatgtgag tgtcaciaag caaaccaaat ggtggatgc caaacgattt ctacatcctg 180

acattgttgc ccgctacgac tacatattta tctgggatga agatcttggg gtcgaacatt 240

ttaatgcaga ggcgtacatt aagcttggtta ggaagcatgg gcttgagatc tctcagcctg 300

gtttggagcc cgataaaggt ttgacatggc aaatgactaa acgaagaggt gatcaggaag 360

tccacaaagt aactgatgag agacctggct ggtgtagcga cccttacctg ccaccatgtg 420

cagcgtttgt tgaaatta 438

<210> 27280

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-A1

<400> 27280

nccacgcgtt cgcccacgcg tccgccacg cgttcgggtg acagtaagcc cgggtgtacac 60

agagaggcgc acagcactgc cctttcactg tgacatgggc ctaaggatgc ggcggcttct 120

acactacgca gataagtatc tatctgaacc taagggagag acaactcact aattgtcatg 180

tacaattaat atctagctag gtaggtatgt gagggcacat ttgacgagct ttgtagactg 240

at ttgtgcaat aacctgata acttacaggt ggatgctgta acctttatct ctttttttag 300

gtctgtattg tttgtcgaca caagatttga gatatgattc cgtttgtcga ctgtattaat 360

cagaattaca agtacagcgt tt 382

<210> 27281

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A10

<400> 27281

atcagcaagc atgagaagcg aatgaatgta cagtatacat gtcagtcgcc aactgctagg 60
gctttatcgc gatccactat acatgcgta gcatcaacgg cgacggtcgc aaggatcgcg 120
atgtaaacta ctgtaccaga gattaacaga tgatcccaat gactgctgaa tatgtaaaac 180
taacatgtga acacattatc atatataatg acaagtatgt tgctcactgc ataactcctt 240
taatctatct ttgcactagc tctatcaciaa gtcactgcgg tgctaaacca tcattaatca 300
aatcgacgcc tgattacaaa gcttactata tgaccataaa cacgtcggaa ctcatgtacc 360
atactgtgat ctatatgaat gctaagtacc tacgac 396

<210> 27282
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-038-Q1-K1-A11

<400> 27282

cgggtccatt cccccgccc acttgtcgga ctcaagagct cccctcctcc gcgcgcggg 60
cacgcgcgcc gtcgtcgcca gcccggttc atttctcctg tccttggtgc ggtggtagcc 120
gagcgtccg gccatggcgt tctatcgagg cctcacgcga gtctcgagac tgcgatcacg 180
catggcgcan gaggccacca cgctgggggg tgtgaggtgg ctgcagatgc agagcgcgtt 240
cgatctcgat cttaagtccc agttgcagga attgattccg gaacaacagg atcgcttaaa 300
gaagctcaag tcagagcatg gaaagacca gcttggaac ataactgtgg atatggtcct 360
tggtggaatg agagggatga ctggaatgct ttgggaaaca 400

<210> 27283
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A12

<400> 27283

gcgtgcgtga aattcgtttg taggtggtgg cgctgctcca gttgctgctg ccgccccagc 60
tgagggggct gcaagtgctg ctgcccgtgc tgcagaggag aagaaggaag agcccaagga 120
ggagtctgat gacgacatgg gcttcagcct gttcgactga ggaggccctc gctaccacagc 180

cattagcaaa ttcccttatg ctgtccaaga cttatcttac gctatgtctg tagccttttg 240
 ttattacaag tactcaagtt ttgagttttt gagatgtggc tatgacaatg tgatgaagaa 300
 ccctaaacca tcgtattaga gtgaaacttg tttctatata gagttccaag tttcttgaac 360
 ctc 363

<210> 27284
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-A2
 <400> 27284

cagctcctca gttgaaaaga gctatgagct actctgatgg ccaagtaatc accatcggtg 60
 cagagagatt caggtgcccc gaggtcctct tccagccatc catgattggg atggaggctg 120
 ctggaatcca tgagacaaca tacaattcaa tcatgaagtg tgatgtggat atcaggaagg 180
 acctctacgg caacattgtg ctcatgggag gtctgactat gttccccggg atcgctgac 240
 gtatgagcaa ggagatcact tcccttgac caagcagcat gaagatcaag gtcgtcgac 300
 cacctgagag gaagtacagt gtctggatag gagggctgat cctagcctcg ctgagcactt 360
 tccaacagat gtggatatcc caagaggagt atgatgagtc tggccc 406

<210> 27285
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-A3
 <400> 27285

cccacgcgtc cgcccacgcg tccgcgccgt cgttcgcccc ctccgcgaca gcctcccagc 60
 cgactgctgg acctgggtga ggcatttca actgcgcccc tcccctcgc cgcagcacc 120
 agccccctta tgccatcccg ctggtctcaa cagctacact gtgttctctc gtcctcacc 180
 ctgggtgctc tgtaccgtcg taccgatgct aggcattggac ggacgtcaaa gtgacttccc 240
 ctcaactctc gcgggtggcc acatataaat tgtccctaaa taaaacgacg ctgcaattga 300

cgtcttcaag ggaatcgaca aacccttttg tggagcaggc catacaattc tncgtagcag 360
 ctgctaaagc gaccattatt gataaggaga ggaaggatgt agtagataag ttactgctgc 420
 aaggtctgaa catta 435

<210> 27286
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-038-Q1-K1-A4
 <400> 27286

cccacgcgtc cgccccacgcg tccggaaact ctttcggcca gtggaaaaac gatggaccat 60
 gtggatttgt tgagagaaca gttgaaaatt ttgtcagggg aggttgcgtt taatacaagt 120
 gctcttaagc gcctcacaga ggaagctgga agaagcccaa agaacgagaa gattcagatg 180
 gaaatgaaga agaagaccga tgaaattaag gggaagcatc aacagatagc atctttggag 240
 agagagatag ctcatgcaac attaggaact caaggaaagg tcgatacgtt agagcattca 300
 ccgtcttatt atgaactact tgagcagctc aatgagaaat ctttagaact tgaggtgaan 360
 gctgcagata atagagtgat acangatcag ctgaatgaga agataacttg atg 413

<210> 27287
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-038-Q1-K1-A5
 <400> 27287

ccgacaacat ccccggaag tgcggcggtt ctgtcggcgt gcccatcagc cccaccgtgg 60
 agtgcaccaa gatcaactga tcgatggaac catagtggag gtagctcgct cgttggatgg 120
 cagcgtacgt ggccatcagc agcatgcagt cgtcgctcgta gcagagatgt cctagctacg 180
 tgtgtgtcat gcatcagact ggacataat aaagaagtag atcatgcacc cactagtgat 240
 cacttcgtct agtgtccctc cgttcaatgt cgtcgctcgtc gtcgtgtacc ttacgtgaca 300
 tgctgtagca cgtacgctag cagagcagca cctcaatgtc cttggggttg ctttgctggc 360
 tctctgtttt cgtcttgtgt tgcttttaat actgcacaag gttctaaatt ataataatga 420

atactttttt tgt

433

<210> 27288
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A6

<400> 27288

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gagtatcata gatctcgaga gattgggtctc atcagctact gctcctgatg atatcgatag 120
ctctggcctt cacagctaaa tgcattattca gcaaatcaag gatcccagaa tagttctttg 180
gtttctgttt ttacttcttt tttctaggtg ctcatgtaaa tagtccttac aacttgtgaa 240
tgcgacttct attgctgtcc cctgcacaat cccagggtca gaactgcagc gagcagctcg 300
tgcttgcata actatgacac ttcataatca tgtactcatt gtggtagatc ttgta 355

<210> 27289
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F4

<400> 27289

tcgcggacgc gtggggcgtgt gctcgcatta ccttccattc catcccgcct ccaaaccgga 60
actccagttc gccccgcacg gagggcgccc aaagccgaga agaagccgcg ggccaagaag 120
ccggcggagg aggagccgcg tgccgagaag gcgcctgccg ggaagaagcc caaggcggac 180
aacctgtcc cagcaagctt gtcctatctg caa 213

<210> 27290
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F5

<400> 27290

cccacgcgtc cggcttatga aaagagccaa catgcttggt tagttgcgtg tttctgcagg 60

ctgagggtag gatattttgt actgttccat aagaaattta caccaccag tttgatggaa 120
 aaaaaagcta ttggcttaca ggatcatgct tcggtttatt tggcctgcaa ctttttatat 180
 tgtgcacttt ttaatagcag acaacacata ttatgatggc accacagtat aggggcagtg 240
 cagcatttaa gtttttactc ctcgtaatat tacttattgt gattctgagc tatattaggg 300
 tgaaacaatt tcataaatc atgaattata acttataagg gaatagaaac tggaatgttt 360
 ctttgtgatg tcctaccttc ctcacctgca tatctgtatc cttgcacgat agctataatt 420
 taacagagaa tgcaatagtt ttaacatgt atagaaac 458

<210> 27291
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-037-Q1-K1-F6
 <400> 27291

cggacgcgtg ggcagcaata gagaaggggt ttaaggaagc ttgcaattca ggctcgttga 60
 gggggtcata ctgttgaaaa tttaagaatt gtattgactg atggggcttc acatcaggtg 120
 gattccagtg aacttgcttt taagctagct gctatctatg cttttcgaca gtgctacact 180
 tctgccaaac ctgtaatat agaacctgtg atgaaggtgg aactcaaatt tccaactgag 240
 tttcagggca cagtaactgg tgatatgaac aagagaaaag ggatcattgt tggaatgag 300
 caggaaggtg acgacaccat tgtagtttgc catgttccgc taaacaatat gtttggatat 360
 gcaacagcta ttgatcagc gactcanggg aaaggtgaat ttacgatgga gtacctggag 420
 cataatgttg tatcgcagga tgtgcagatg caactagt 458

<210> 27292
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-037-Q1-K1-F7
 <400> 27292

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cgggatgatc ttgacacgag acttctccgt gcaatgatca ccaagggatt gattgagcca 120
 atctccagcg tttttgtcaa tcttggttaat gctgacttca ccgcaaagca gaggggagtt 180
 cgcatcactg aggagaggat catcttggac ggctcacctg agacgcctat cgactacatt 240
 caagttcaga ttgccaatgt caagtccaaa tttcctagtg cgatatctga gactggagag 300
 atcacagtgg aggggagagt gaaggatggc gttcctcatc taacaaaggt tggagcattc 360
 caagtggatg tgagcttggg aggaagcctg atcctttgca ggcaagttga tcagccaggt 420
 atgattgggt cggttaggaag tggcttgg 448

<210> 27293
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-037-Q1-K1-F8
 <400> 27293

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 cggctgtctc cctccatctg tctgcctat tctattgtt tctctcttca ataataaga 120
 tgagccgtgg tggtagtgcc tgttgtggc aaagtctctt gggttatctt tctggaagcg 180
 ctgagccttc ataaccagca ttggcaccag ctgcaagcgc ttcaacttgct gataaaccat 240
 ctcatgcata tactgattct gccaatcata ttgttgctta tgttaccatt catacctata 300
 actactacag ggggtatttt atataacact gcctacttct ttacagactg ttctttatcc 360
 t 361

<210> 27294
 <211> 61
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-037-Q1-K1-F9
 <400> 27294

tgaattggag tgcaagcaac tcgtttagcc ctatccatt cccgcgcta gccaaagat 60
 c 61

<210> 27295

<211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-G1

 <400> 27295

 cggacgcgtg ggcggacgcg tgggaggacg cgtgggtggg aagctcagtg gtattcagct 60
 ctgctatgct ggtggatttg gttaccatgc ctatgggaaa gctgggtggg caagaagagc 120
 gaggggtactg tctgtgcaac ttgagaaaac agacagcggg gaatggcgag gagtcaagtc 180
 catcaagaca tggaagaggc ttgatgataa acatctgagc acaattgact ctgaggttct 240
 ctggaacaga ggctctaata ggaggcgagg gaaaaatcct gatggtagtt aacttttgat 300
 gcagacagga atgggtgcttc ctaagggatc ttttcattgg gggggattgg tggattgcc 360
 gtttactata gaatcagaaa tatgcccaag tgtgtacatg ggggagaaag tcaaatacag 420
 acacatacac gc 432

<210> 27296
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-G11

 <400> 27296

 gtgcttcttg tacctactgg tgtctgtctt ggtgttggga tcagagcgca cctaattgtc 60
 cgtttttgta ccagctgttg tatgcgaatc catctgtgcc ttcacacac aatgcactcg 120
 ctgttgctgc tggc 134

<210> 27297
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-G12

 <400> 27297

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 cgatccttct gcttctgaac caggattcag atatcttcgc agggtttggt gataggcagc 120

gctatttccc agtaacagtt tctatttctg gctatttatt gttgacagcg ttgtatagga 180
tatgggagga gacttggcct ggcaatggag gatgggctct tgatatcggg ggcccgggct 240
ggctgtttgc tgtgaagaac tttgctcttc ttgtgctcac tttgccgaat cacatactct 300
tcaaccgctt catgtgggat tatgtcagac agacagatgc caagctactg ctgacgctac 360
ctctcaactt gccttcgatt ataatgacag acatacttac tattcgggtg ttaggattgc 420
taggagctat gtactctctt gccag 446

<210> 27298
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G2

<400> 27298
ggtgaggctg tcaagtacaa gagctcattg gacgcattcc agcagatcct taagaaggaa 60
ggccgcaagt ccctgttcaa ggggtgctggg gctaacattc ttcgtgccat tgctggcgct 120
gggtgtgcttt ctggctacga ccagcttcag atcctctttt tcggaaagaa gtactgctcc 180
tgcggtgctt aaatggagaa aaatgatgac gaacaagagc agttcgcttc cggttcaacc 240
cagtcaggat cttggtaaag tttttgcctt tcatatcgaa gaaattaata atttatgtag 300
gagaatTTTT tcaacattcg tttttggcgg agacattgat cttaaaaaaa ctcgtaactg 360
tcctactagg tgggtggcatt gggtcccaaa acatgggtcat aggggtgtgtc taatctgccc 420
ttctgtgcaa ccgggcaatt tttcttacat ata 453

<210> 27299
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G3

<400> 27299
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cggaagcgag ctgcccggg cgggtgcctcc agaggccagc cggagccggc gctgtacaac 120
ggaggcattc tcaagttcgg cagcagcagc agcggctgcg gcgatccgga cgggtaccgc 180

acgacggaga cggcgctctt ctccccggcg ttcgtggtgt acaacctcaa caagaccacc 240
atgtacacct tctcatgctg ggtgaagctg gaaggccacg ctcttcatga acgagtacaa 300
cgtcatcgag acctgcgacg accccttttt caccgtcgac acgtacg 347

<210> 27300
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G4

<400> 27300

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agggtgtcaag gccatgtcag tgctgccctt gttcttggtg gaggaggattg tactggacca 120
catcttcaca ctgtttatcc acacggctcc actgatactc ttccttttgc cacgatgggt 180
tctggatccc ttgctgcaat gtcagtgttt gaatcgaagt ataaagaatg cctcactagg 240
gaagagggaa tacaactggg gtcagaagca atatgtgcag gtatcttcaa tgacttgggt 300
agtggaagca atgtggatgt ctgctgata accaatggga agacagaata cttg 354

<210> 27301
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G6

<400> 27301

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tgccatcaga aattggtggc aaaaatggtg aggagattat tagggactgg aacaatgagc 120
ttcaagaccg tactgcaaaa ttcaggaaac atgccaccgc gatagctgaa tgggataaga 180
gaattctgca aaacagaaat gttcttatta ggcttgaggc tgaggtggct aaagttgttg 240
aaacacaaac aggcttggag cgtcaacttg aattgataga aactcatcag cgagaggtag 300
acaaggctct acagagtatg gaagaggaag ctgaacgcgt attccaggat gaacgagtgt 360
tacttcatga agatggagct gcttcagcaa gagatactat gtatgaacaa gcagaagttg 420
tcgagcatta actgcaacat atgacagaac aagtaaaa 458

<210> 27302
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G7

<400> 27302

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 cgcccttctg tacagatgtg ggcacatgtg cacttgctcg aaatgcgcaa acgaattggt 120
 tcgagggtgga gggaaatgcc cgttgtgccg cgcacccata atcgagggtca tccgagcata 180
 cttcatcatg tagatacaaa aggaagacag caagaagata gaagaggccc aaattgtttt 240
 tgggtctgtg ggagtcgtta gcggtgtgtg tattcaatta tgttcattct ctctaagcg 300
 tttgggttaag gttttttccg gcttcattac gttttggtct gcttgccta ttgtaagtaa 360
 tg 362

<210> 27303
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G9

<400> 27303

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 cggcacgagg attttgcctt ctggtgtctg tcccgttga accggggatt tctgagtga 120
 cgaatagact tcccatggca gctattctgt tgaggatgtg cgaaagggtgc actgcagagt 180
 ctgagaagtg agagaaataa atgacaagtg atgtttaccg ctcacccaat ttaaccaat 240
 gccacagtga tacgattatc tctgctaaag ggataattgt ttcaactaaa ccaagcacca 300
 cagttggagg tcaaatcctt ggaaggcaat attgtgaagt tattgtaact tgtgtgctaa 360
 aacgagattc aattttgcct cgccctgtag tgatgtctct gtggtgcttt tgtgactgat 420
 catctctgga agcttttgtg aatga 445

<210> 27304
 <211> 439
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H1

<400> 27304

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cgaccggaag ctccgggacc tggggctgca gttccggccg gtcagccagt cgctttacga 120

cacggtgaag aacctccagg agaagggaca cctgccggtg ctccggagagc ggacgacgac 180

ggaggccgcc gacaaggatg cccccgcggc cgagatgcag cagggaggga tgcctatccg 240

tgcctgagag ggcgatgcca cacatgaaca caaagcagtg ttcatactgc tgccctgcac 300

ctgcacctgc ttcttccccct gctgtgtaaa caggcctgtg tttgttctgg ctgatagtga 360

tgtaccctta gaactggacc ggtatgggtcc gtctgggaa ccatagcgag gtgattaaac 420

tgggtaatgt tggatgttc 439

<210> 27305

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H10

<400> 27305

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ggaaaatggt gaggatgggt taatttatgt aggaacatg gtaaataccgg ctaccctgga 120

acaaatattc ggtgtctctt ctttggctgc attaccagcc cagttggcgt tggagcaatt 180

tgacaacgaa ctctcgagga aggttaacga agttgtaaat gaaataagac gccagaggtg 240

ctcatacttg aggttaagac aatgcagaag gggtaacca tctgggtgatt ttttccggtc 300

atTTTTtagtg gaagacaagg cccctggcgt cttcttctac gtcgaagtcc tttggcatgt 360

tcacaggcca atcccaaggc agatgacctt gagggccc 397

<210> 27306

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-F2

<400> 27306

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aggggcattt tttttcaggg ataaatataa atccgttctc ttgccatggg atttagcacg 120

cacaagcaac gcttgaataa gtcttgcaaa ttcaacacag gttctacgaa agtggctttg 180

gctaataaac gactgcaatg tcgagaaacg acactaagtt ctttcagcgc tttccaccac 240

cgtcgcccaa cttggggccc ttggaaccct tctggaccgc accctttgtc tgcgtcttct 300

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ccttgatc 368

<210> 27307

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D8

<400> 27307

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tgccgcgcct ccatacctcg caccagctct tttctctggc cacttctcgc ttgaaccgcc 120

tccgccgccc cgacctcgcc gctcgtctcc tcgacctcct ccttgccctcc gccccgcct 180

ccccggggct ccttgcgagg gcgctctccc tctaccggg acccgacgat gcgctccggg 240

ccttctcctc gtctgcccc gccaccgct cccctcctcc gcaccttctc cgcgctacct 300

ggatacagtg gttctccaag aaaggcgaga cagccaaggg ggaggagctg cttgatgtga 360

tggaatcaaa ggaggtagcc ccgaattacc ttacctaaa tgctatcatg caggggtatt 420

gcaaggaggg gaatgtcggc gcagcgatgc gtgtgttca 459

<210> 27308

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D9

<400> 27308

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aaagaaaaaa taaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac aaaaaaata 120
 aaaaaaaa gtcttagcat ctaaactttc caacctaatt tttttcttta ttgcaacacc 180
 taaactcaac taaaatgcca cctaatttca attt 214

<210> 27309
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-037-Q1-K1-E1
 <400> 27309

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 aataataggg gggacacatt tacatatcga gtgtatacaa attacaaaag ggtcctttcc 120
 ttttaaatga cccatactta attcccccta attttaaatc aatagccctt gtaaaacact 180
 ccctttacca ataaaaagcc cgttgtacca aaatctatct tctggaaaaa cattaccatt 240
 tcccaaatta attccttttc aaatattccc catttgacca gctttaataa caacta 296

<210> 27310
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-037-Q1-K1-E10
 <400> 27310

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 tgatcctggg cttaagctgc aagatcagat tagaagaagg tacttggtta aaggtcctca 120
 cagaccacaa cctagtttta agtatccaca aaaaaatcat agtgggcaag ccacgtcgat 180
 ttaaccagc atggtttgat gaggacagtt ggattgaata tagtgagaag gtggatagag 240
 ctttttgtct ttactgctac ttgttttagag attgtattga aggtcaggcc ggaaatgatg 300
 cttttgtaac aaaaggtttc tcttcctgga acaagaaaga tagattagat gttc 354

<210> 27311
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E11

<400> 27311

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ggggatcaat tacttttcga tagcaataat gctatctaca aacctccaaa acttattctt 120
ttaataatac caatattcta ttcgtacgta tgccattgta cttccaatat ctatatcttc 180
tctgtatcta atatagcatg aatcttaatt ccacttatgt actactccaa cttctgtagt 240
ctgtaaccac atggatctgc aaggaatact acatgcagtg ttaatcatga tcctccttca 300
tttacaatgc caaccttcaa taccgcttat gttgacttga tcctgaaact tactgaatat 360
gatttgaaga tctggccaca tatttatgaa tac 393

<210> 27312

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E2

<400> 27312

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cggcgcctac ggcgaggtcc tcgagtccaa gattatcctc gatcgggaga cgcagaggtc 120
ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaggg 180
catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc agtcccgcgg 240
cggccgtgga ggcggcggcg gcggtacgg tggtggccgt ggaggcggcg gctacggcgg 300
tggcgggcg cgtgatggcg gcggcggcta cggcgtggc ggcggcggct acggtggcgg 360
cggtggctac ggtggtggtg gtggcgcta cggcgtggc aacggtggcg gcggtacgg 420
caactccgac gggaactgga ggaactgagc ggt 453

<210> 27313

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E3

<400> 27313

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 ggggtgcgtc ggcgacacga tggagtcaat ccgctccatg cagatccgcc aattgctcac 120
 gcagatcatc agcctcggta tgattgttac ctctgcatta atcatatgga aggggttgat 180
 agttttcaca gggt 194

<210> 27314
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E5

<400> 27314

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 cgactcgata aagcaggagc tgttcaagaa cgctggctat ggcggatgct gcttgtatag 120
 gggcatgtca tcatgttatg ggaggatgat tattatgttg cttttttata ttaatcttat 180
 attatctttt tttgtcttag tttttatatt cattgttatt ttcttttttt atttaatgta 240
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 ctttatttct attatttatt atttggtttt ttaattttat tttttttttt tatatttttc 360
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<210> 27315
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-037-Q1-K1-E7

<400> 27315

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 cggtgctgca cgctgatcca ggggctggcg gacctggagg cggcgggtgtg cctctgcacc 120
 gtccctcagg ccaacgtcct gggcatcaac ctcaacctgc ccatcaacct cagcctcctc 180
 gtcaactact gcggcaggcg cgccccctcg ggcttccagt gcttctgact atcacagcc 240

catcgatcga tcgatctgga ggctaaataa tttctccaag ctgctagtat acgtacgtac 300
gttgatatat atgatgtagt attatatata tgtccatgca tctngtnocg tatcgcatgt 360
tgttgttgtt gttggtggtt ttogatgata ctgtctctgg tataaatatc attattatta 420
cagtacgtgt gtgacctg 438

<210> 27316
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-037-Q1-K1-E9
<400> 27316

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tcttctctct cacggcgacg actgggagac cgaccaaccg tcgctgcgct acgccagggtg 120
ccaaggctctt cttcgggtcc ttccggcgcg accagcagca ccaggcaatt gcacttgtgt 180
aagaaatgga tgctactgcc ggttaattgc gatacagatt tatatggaca tagatattgg 240
ggccatgtgt aagggcggaa gctgttccca ccgcgtcaat aaggggagtc ctgctgggttc 300
taccaggaag atccgttcca cagcctctca aggtcggatg gcatctgaca cagctagggt 360
aacgaatata gacgcatcaa agctgaataa cctgatcttg gcatcattca aactcttgtc 420

<210> 27317
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-037-Q1-K1-F1
<400> 27317

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ttgttggaac ggagcgcaat atctcaaggc acttatttgt caaatgattg gctagtgtct 120
aaactacagg aactgggtctc actttcatac cagattagta ctgggcaatt tgaaggaatg 180
caaccaatag gtgtgaagct tttgtgtttg ataatggaca agttcggcaa ggcagtagat 240
ccggaatttc ctggccatat cttgctggaa caatttcagg cccaacttgt ttctgctgtt 300
agaatggcta taagcactgc ttctggtcca cttcttttgg aggctggact tgaactcgct 360

tcaaggggta ttaccagcca cattattggt ggggatagac tagcttttag tcgcttggtt 420
tctctgataa cacgcccgtt aagtgacat 449

<210> 27318
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F10

<400> 27318

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caatggccgt catggcattc gcgggggatc agggccagaa cttccactac tccccaatgg 180
gcaatgccac cagccagggt gcgaatgtga cgttcactgc acgcgctgag agaacacgtg 240
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cggtgattga cgatgtccgg gtatgggcat tgaacgccgc ggctgggttg aaggcaagta 360
ttggactggt tcttggcatt gttggtgtcg ttggcatggt gctgttctga aatctgaatc 420
tctcggtgcc agtgggtcttg ggaag 445

<210> 27319
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F11

<400> 27319

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cgagggttct acatgggtgga actgggttctg ttcgaataag ttgaactata gccgccctca 120
tcttgtggag tttgtggact ctgagcaa atcgatcttcg aacataacat ttttaaattc 180
ccctgcttgg agtatacatc cagtgtattg cagcaatgta gtgggtccata gtgtcacaat 240
tcagacttca ttggatgtc cacttaataca tgggaatcggt ccagattctt gctcaaatat 300
gtgcatcgag gacagcagta tcagtgttag ccacgacgcc atatcactaa aaagcgggtg 360
ggacaagcaa ggcattgctt tcgggaggcc aacctcagac atccacataa gcagactgga 420

tctgcagtcc tcaactgggcg ccgc

444

<210> 27320
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F12

<400> 27320

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gccggaataa gaatgagaca ttgctatgtg gagacttgat ggtaaagggg gagctgtctg 120
aggaggacgg ggtgttttct tgcaatgagg tatgtggccg cacgctcgcc tgtggcaacc 180
atgcttgcaa ggatatgtgc caccagggc cttgtgggga gtgtgagctc atgccgagga 240
aggtcagtac atgtcattgc ggcaagacca ggctgcagga gaggagggcg agctgcttgg 300
acgcaatccc cacctgcgat aagatatgcg ataagaaact gccatgtggg gtgcacaagt 360
gcaagggtcaa ttgcccata ggaagatgcc caccttgttt ggtgctcggt gag 413

<210> 27321
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D7

<400> 27321

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agagtacatc gagtgggttca agaaggctgg gtttagggat gtcaagctga agaggattgg 120
accgaagtgg taccgcgggtg tccgaaggca tggcctcatc atgggctgct ccgtcacagg 180
cgtcaagaga gagcgcgggtg actctccctt ggagcttggg cccaaggcgg aggatgtcag 240
caagccagtg aatccgatca ctttctctt ccgcttctc gtaggaacga tatgtgctgc 300
ctactatgtt ctggtgccta ttacatgtg gataaaggac cagatcgtgc caaaaggcat 360
gccaatctga gtgaaggga tgagctgcat ggaagagagg atagccaacg tctgaatttt 420
actcttctct atattagacg cttctgcct gttttg 456

<210> 27322

<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C12

<400> 27322

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atgattactt gtggcatcgg tctttccgcc atttttcctt tatgtagcca tccattttgc 180
cttcttgctc cttggttttt cttgttgcatt tctggtttga atacgtttta tttttttgctc 240
cacttctata atatagcttt caaacagcgc tgaagggtgt tctctactca aagatattcc 300
tgctaccaag gatggaaggg ttgattgggc acaggatttc ttctgcaaac cagcatttct 360
gacagtgtct ggacagctta atggtgaaac atatgcttca gctctatctg atatttacac 420
atttgggtcca acgttttaggg ctg 443

<210> 27323
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C2

<400> 27323

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ccgtgacact gcaagttttg aaaactgaac tgtaagatgg catcagcaga gctttcccgt 120
gaggaaaatg tgtacatggc gaagctcgcc gagcaggcag agaggtacga ggaaatgggt 180
gagttcatgg agaaggtagc gaaaactgtt gactcggagg agctcactgt ggaggagcgc 240
aacctcctgt ctgttgcata caagaacgtc attggagccc gccgtgcctc atggcgcac 300
atctctcca tcgagcagaa ggaggagggt cgaggcaatg aggaccgtgt aacactcatc 360
aaggactacc gtggcaagat tgaaactgag ctcaccaaga tctgtgatgg catcctcaag 420
cttctcgaat c 431

<210> 27324
<211> 449
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-C3

<400> 27324

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cgcccgccag cgcctccgtt cctcaacgcc tgtttgcct tgcattggcc gagccagacg 120
tcgcaccttg cctccacctc cgcattccga tcacccgctt ccagctcctc tccgtctcgc 180
tgctcctcct ccgctcgcag agctgagctg atcgatggac cagcagcagc ggcgccagcg 240
gcagcagcac agtcccagag gcaatgctcc tgggagcggg aggtgcggct cctcgtcgag 300
gaagcacaag ggcgggggca agaaacccat caaagtgggtg tacatctcca accccgtgcg 360
cgtcaagact agcgcgctg gtttcgcgc cctcgtccaa gagctcaccg gccgcgacgc 420
tgacccctnc aagtacagcc ccgaggacc 449

<210> 27325

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C5

<400> 27325

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gaggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attacagaaa atttttttaa 180
aaaaaccttg ttataaccca attaaataaa aattaaatta ttttcttttg taatctaatt 240
attaaataaa ttgatagatt ttttaaaaaa tgttttttgt aaaatttcgt atttttttct 300
aatttat 307

<210> 27326

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C6

<400> 27326

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cttcgcttgg tctctgctgg acaactttga atggttcgcc ggcttcaccg aacgttatgg 180
cattgtctac gtcgaccgca acaataactg cacgcgctac atgaaggagt ctgccaagtg 240
gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag attcttacgc cagcttagaa 300
atcggggggc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggt ttogaaccga 360
aaatctcttg tttttttccg ccacgagagg ttctggaggc atactctcca gcaccgtggc 420
taataacgca ttgttccaat tcagtctggc cttgtcat 458

<210> 27327
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 27327

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ggacttgatg actgctctgc agctcgatg gaagaagtca agtgctcatg acggacttgt 180
gaaggggtctc cgtgaggctg ccaaggccat cgagaagcac gccgctcagc tttgcgtgct 240
tgctgaggac tgtgaccagc cagattacgt caagctgggtg aaggcactct gcgctgagca 300
caatgttcac ctggtcactg ttctgcccgc gaagactctn ggcgagtggg cggggctttg 360
caagattgac tctgagggca aggaaggaa ggtttaggc tgctcctgtg tcgtcgtcaa 420
ggactacggt gaagaatctg agggccttaa cat 453

<210> 27328
<211> 300
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-037-Q1-K1-C8
<400> 27328

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 ttttttgctg caacataaaa aatgctaccc aggcatagct gggtagcttt taacttctgt 180
 ttgtgggatt tgctagagtg atggtttcga tatatagggg gacttgaatg tctggaaaaa 240
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<210> 27329
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C9

<400> 27329

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 agacaatgcc acagatgagg aacatggaaa accaggcctg ccctgattca agatcggttt 180
 caggaccac aagtatagat acgaaacctt actgctacta aaacacaata cctcaaatag 240
 acgggctttt cttcgctgcc catgggagca gcctgtgaat cgagctgctc ctcttgcgga 300
 agtcgtgaag gcaaagcatt ggatggaaga agttgtgccg tctcagttcg atgtacaaaa 360
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<210> 27330
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-037-Q1-K1-D1

<400> 27330

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 cggatgaaggg aggggaggaa aggaaacagc aaccacatgc gattatttct tggggattcc 180
 gccctccga cctatctaag cggaccataa ccacgggcag caggacatta tattcttctg 240

cctgcccttc cgttcaatth caatttcact ttctttctct cctctcctcc tgctgctact 300
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 ctgtccttnc cgccgcctgc cggagatgga gatggagaac gggcacgcca agtaccgggt 420
 ggccgtcatt ggcagcggca actggggcag cg 452

<210> 27331
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D10

<400> 27331

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 aactgcgggt ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc tgacgtggag 180
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 gccggcgggt tcgaggcggc caccgagggc ggcggctgcg actgcaacac ctgcaactgc 300
 ggcaccagct gcggtgctc ctgctgcagc tgcaactgag ccggccccgc cgccccggcg 360
 atggcgcacg agagtcgaga ggacgacgac gacgaggcgt ataaatataa ttaatagcag 420
 cgtctaaata agatcctgct aactgca 447

<210> 27332
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D11

<400> 27332

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 gcggaagaca cacaaataaa cagagtctct gaagaacttt ctgctgagga gggaaatgag 180
 atgtgcattc tgtctgctga attacacctt tatgagcaag aggaattgag tttctttgat 240
 attatgggta gggcgcgtga gagagatgag attgtgattg gctaccgtat tgctaacacc 300

gaccaggcta tcattaaccc agaataaag tcttagacta ggaagcggtc actagatgat 360

<210> 27333

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D12

<400> 27333

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aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca caaacataaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaat aaaaaaaatg tacttctcca actaaagtca ccaactttaa 180

attcactgaa attgaactta aaactttttt tctggtaaaa ctatatcaat tcaaaagtca 240

atcgttttta aacacatttg cctgaaaaaa cctggcggtac caaaattaaa accctatcta 300

ataaaccttc tatacccctg cagatcctat attaaaaa 338

<210> 27334

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D4

<400> 27334

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gggcggtggc ggcagccggc ggcaggatct gtgccgcgat ggcgacgtcg aacacggcgc 120

ggatggagga cggtctgtgc gacctgcgga gcaccatcaa gaagtggaat atcatctacc 180

ctgtctacct caactccaag aagactgtcg ccgagggccg tcgcatcgcc gctgccaaag 240

cctgcccgga cccacactgc atcgagatcg ctgactgctg ttgcacactt aagatcccc 300

acgccatcta gttggataag gcgtaccctc tggatTTTT 339

<210> 27335

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D6

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tgtctcatta tatttttttc tattaattta tcttttataa ttttaatat ttatatattct 120

tcttttatatt atattttttt aatttttttt ttttatattt atttttatatt ttttttatatt 180

aatttatatta tttatttttt ttattttctt tatttatatt tttattattt tattttttat 240

tatttttttt attatatatt tatttatatta ttttatatta tttttttatt tatttaattt 300

tattttattc ctttatattt ttttcttttt ttatttttat ttttttttct atttttttta 360

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tattt 425

<210> 27336

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C11

<400> 27336

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gggtcttcgt cacatcaccc gtccctcgc gctcccaact caccocacc tcctccgctc 120

tcgcaagcta gacaggtggg agccgccgtc gtcgtagatg tcgaaggacg gccccgactc 180

cgactcgttg tcgtcgtcgc agatatcgaa agacggccct gagtcgact caccgacgtt 240

gcagatgtcg ggggaaggct ccggcgccgg ggacaggtgg gagccagatc tgagcggcgg 300

cagcggctga agcagcaggc gggcaccgcc ggaccaggtg ctggggaacg tgactcggag 360

gaggactccg actcgcgcc gtcataagggt tcggaagacg atccctgctg cggggactgg 420

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<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A6

<400> 27337

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 ggctgcaaac gtgagctacg cgctgtacca ctacgcccc ttctgtctga acctccagga 120
 ctgcaagttc gtccggggcca ccttcagcgc catcgccctcg cggtagctgcc ctctctctggg 180
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 cctcgtctgg atgctcttcg cggaccgccc ccgaaggag gaggtgtccg atctggcgctc 300
 ggggtcgagg atcgcgccgg tagacagctc tccgtcgtag aagcaagcaa gcaagcggcg 360
 caacgggatg tctatgacta tgagtgaagc tgcttggctg catggtgacc agagtttagt 420
 acagttccct tccatggcta tgtaaaatag tttcgggt 457

<210> 27338
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-A7
 <400> 27338

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 gacacaaggt gaccctgctt tttcagggtta agaaggggtta gagaaaatgc ctcgagccga 120
 ggtccgagta ccaagcgctg cagcgctgaa gtatgagccc cgtgcggacg cgtgggcagc 180
 aaggttcggc gaggtcacgc atgtgaggtg ctgtccagca ttgagcagaa taatgcagaa 240
 tacttgccggg atgagccatt gacggctgct tcgctgatca aaacacctcc gtgaacacaa 300
 acatgaggca cagaagaaat gatgaaaaat aaagggttg taacagtttt ggtgcctttg 360
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 tgtatgtcgc tgtcatgtgt gcaatgttca atacgta 457

<210> 27339
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-A8
 <400> 27339

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ctgggtgtgtc gctgcttgca ctcttcaagg agaagaagga gaagccaagg tcttagatca 120
 ctttcggttag tcaagaatgg tgtaaaactgc ccaaggctct attgtcaaag ttaaagttct 180
 gctagcaact cagctgttaa atctgagctg tacctttttg ttaacattgt tacagtatta 240
 cagagttctg tttccatttt gaagatatta atattgcac ggc 283

<210> 27340
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-037-Q1-K1-A9

<400> 27340

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 tggaggggta aactgctaa tggtattcgt tacttcccta ctgaggcttt gaactttgca 120
 ttttaaggact acttcaagag gttgtttaac ttcaagaagg atagggatgg ttattggaag 180
 tggtttgctg gcaacctggc ctctgggtgg gctgctgggt ctctctcttt gctttttgtg 240
 tactccttgg actacgcgag aacaagggtg gccaatgatg cgaaggctgc caagggagga 300
 ggtgaaaggc agttcaatgg gcttgtggat gtctaccgca agacactcaa gtctgatggg 360
 attgctgggc tttaccgtgg atttaacatc tncgtgtgtg gaatcattgt ttatcggtgg 420
 ctgtactttg ggc 433

<210> 27341
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-037-Q1-K1-B1

<400> 27341

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 gacgcggccc acttctctgt ccccgcgggg cagtacgcgg tggagctggg ggccggggcgg 180
 gagagcgcca tcgcgcaggt catccgcacc gtgcccaacc gcgcctacaa cctgtcgttc 240

gccgtcggcg acgcccggaa cggctgccac ggctctatgc tggaggagc gttcgcgggc 300
aacgtcacgc agaaggtgcc gttcgattcc gccgggaaag gcgggttcaa gacggcggcg 360
ttcaggttcg tggccggcgg cgtccgcacc cgnctcacct tttacagctt ctactaccac 420
a 421

<210> 27342
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B10

<400> 27342

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gggggggaca ggttggattc ggatctgagg ggcggcagcg gcaggggcgg gaggcgagcg 120
ccgccggacc aggtgttgga gaacgtggcg tagaggagga ggactcggac tcgtataatt 180
gaaatacgaa gggacccttc tgccttctcc gtaaaccgac gcgaccctgt gagccctcgc 240
gccaaaggata gggagcaaca ggagaagttt ggcgggtccac gtcgacgaga gcaacagtgg 300
tgagcctcgc cgtgttgtgt cccgtcttca atccgtgggc ttgaagattt cctgttcacc 360
tgctgttctc tacagcacac tcattcctca acgtgcctct aattgatgca ggattatcaa 420
caactagttt tggaaatctt gcaag 445

<210> 27343
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B11

<400> 27343

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gtgacggaca tgggtctcgac catgaccggg gcaagacgca tggggaacca tgggtccaac 120
tctcacaagg tcaggagtcc caggctgaag tcggtgatta ggcgcctgaa cgcgcttact 180
tcatgggcgt atcaggccgt gatctttcgg ctactagcac aagggttaggt gctcgcaggg 240
cttctatacc ggcagtattc tctacgactc cgcgtgcttt gaataatatt tcggtgaaga 300

tcatcgatct actttgcaat gctagatctg acttcactta gactcgactt atgagcagac 360
aagtgatact gggcatcctg aacaactact agctggagat gctgctg 407

<210> 27344
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B12

<400> 27344

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tttgggtgctg cagcgaaata agaaatgatg tgagaaacct gaaagtttct tgcgtgggta 120
gaggactaat gggttatctt ggaaataagg gttctatata cataagcatg tctttgcacc 180
acacaacctt ttgttttgtc tgttgtcatc tgacctctgg tgaaaaggag ggagatgaac 240
tacggaggaa ctctgacgtt atggaaattc taagaaagac tagatttcca cagggtccgtg 300
gtgctgctga tgtcaagtca ccagaaacga ttcttgagca tgaccgtatc atttggtctg 360
gggatttgaa ttatcggatt gccctatcgt actgctcggc aaaagctctt gtcgaaatgc 420
ataactggaa gcaactgtta gagaa 445

<210> 27345
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B3

<400> 27345

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agggagaaca gggattcacg agaagctgtg gccacgatag aagcagggtc tgctgcatc 120
ggtgtaagga cattcaaattg atgttaccag ccaattgcca actgaaacca acgtcctgga 180
tcaatagcag gaatcttgtg cccaatagtg ttgcttgga acaaaaactga tgctcctcgg 240
gctcaagcct agtgtaggct gcattattca aaggcggat catatcattt ttattcctcc 300
ccccacaaa attcttggga gatgtcactt ctgattttgg aagctcatca tatgagttag 360
tgcggtggac tttgtagaga caaagtattt tgaaaggatg ctttgtcatc 410

<210> 27346
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B6

<400> 27346

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aatcatctct gctagtatag caggtgatat ggttcttgct tctgcttact cgcattgagtt 120
gccacgatat ggtcttgaag ttggctctgac caactatgca gctgcctact gcactggcct 180
tctgttggct cgccgtgtgc tcaagacccg tggtttagat aaggaatatg agggcaatgt 240
tgaggccact ggtgaggatt tctctgttga gccagctgat gagaggaggc ctttccgtgc 300
tctcttggat gttggcctta ttaggactac gactgggaac cgtgtctttg gtgccctcaa 360
gggagctttg gatggtggcc tggatattcc tcacagcgag aagagggttg ctggtttcaa 420
gaaggatgac aagcagctgg atgctgatat ccatcgcaag 460

<210> 27347
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B7

<400> 27347

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ttgcacacaa tgaccaaagg cttattcata aacagagact ttatactgtg gaagagtgc 180
gcttgctgag cgatactgta ccacaagat ccagaaatgt ccagaaagaa caacactgca 240
gccctcaagt gtgccagcgc agtgatgcta cacatttcta tgatgttctt atcttcaaaa 300
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tggccacaaa acagggatgt tgttgtaaag gcatatggct ggacatccac atctgccctt 420
gtaaccttgt tcatgaacga actcttcccc acatttgg 459

<210> 27348
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B9

<400> 27348

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cgccctgcaa tccgcgcgct tttcgtcggg tgggtgcaac gaatcgacca tgcttcagga 120
agctttggct ttaagacgaa ggtatacgtg atatggaaat acaaccgaa ggtaggatga 180
acgagcgccg aagctgtggc tgaaggagct ttggcttagt atgatgatga aggtggaaga 240
tgaaaccgac ctaaaaggga aaagactact cagcccttga tagctcacct tatgattagc 300
agtaaagtgc agggatatga atgtaagttt gtccgggttg cgccccgtgc ctataaatag 360
atgaacagta acaccgtact gttcacgcgg cattgtaatc ttgcgtcact ctcgcatttt 420
cacgttctag caagccgaag gtattaatgt 450

<210> 27349
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C10

<400> 27349

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cgtggcccaa gccccgcggg cgccctccca aggtcgccaa gacctcgtc aaggcctccc 120
ccgccaaggc agccaagaag ggggctgctc ctgccaagaa gggaaaggca gggcgggctc 180
ctaagaaggt ggcaaccccg aagaaggctg ctgctgctgc cgctccggtc aggaagggcg 240
tggccaggaa ggccaagaag tagtctgccc gccttgctgc tggcgagatc cccccctcaa 300
ttccgcctat agattccctt ctttcatgga ttttgatcca atcgtaatat tgtcagtagc 360
tctagattcg tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaact 420
tgggatgggt gatcgctgtg gatcag 446

<210> 27350
<211> 456

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-037-Q1-K1-A5

 <400> 27350

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 gggatgtgca tcgccaggat aaatcttctc gcgcagtccg ccctgttcgt tctcacggag 120
 aagaggggtgc cgcagcgggtt gcttgagatc gcgggggtcg ccacattctg ggcttggtac 180
 ccgttgctgg tggcttccct gccgaattgg ttggagaggg tcgcgtttgt gcttttcagc 240
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 atcctgtgct ctcttggat ggattggctc cacggtggcc tgcagttcca gattgagcac 420
 catctggttc cccgactacc ttggtgccac cttcgc 456

<210> 27351
 <211> 121
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-G7

 <400> 27351

 agcagatcta agtccaggc agcgttgaga catagtgagc tagtgagtat cacgacatca 60
 acaatgggtt ccctgaaggc cgccaagccc atcggagttg cggcgcgatg caaggagccg 120
 g 121

<210> 27352
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-036-Q1-K1-G8

 <400> 27352

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 gacgcagagg cgcgggcgct cgcaccacca cgaccacgac ccgatggctt tcatgcgctc 120

ccgctcaaat gcatcttctg gcatgggagt tgctcctaac attagggaga cattcgttga 180
gcttcaaagt aagaaggcat tccgatatgt tatcttcaaa atcgaagaga agcaaaagca 240
gggtggttgat gagaagacag gggctactac tgaaagctat gatgattttt tggcctctct 300
cccagagaat gactgccgat atgcgctgta tgattttgat tntgttactg gggagaatgt 360
gcagaaaagc aagattttct tcattgcctg gtcccatcg acatcccga tacgtgctaa 420
gatgctgtac tccacgtcga atgaccgcat caagtacgag cttgacgggt 470

<210> 27353
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-H10

<400> 27353

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cgtcggcggc ctcgcctggg ccacggacga ccaactccct cacaacgcct tcagcaccta 180
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caaggagctg gacggcgcga acatcacct caacgaggcc cagtcccgcg gcgccgtgg 360
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ccgtgatggc ggcggcg 437

<210> 27354
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-H11

<400> 27354

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ccgcggagag cgatggcgac ggagctgacg gcggcgagc tgccgcgta cgacggcacc 120
gaccctcca agccatcta cgtctccgtc cggggcaagg tctacgacgt cacctccggc 180

cgcggttctt acggccccgg cggcgcctac gccgtcttcg cgggccgcga ggccagccgc 240
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gacaaggagc tcggcgctct cgccgactgg gagatcaagt tccaggccaa gtaccccgtc 360
gtcgccccgac tcgcgcncga cgcctgaact cgtcagtctc ggtctaaatt tactctgtcc 420
tgccctcttg ggtgttcagt gctgtgc 447

<210> 27355

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-H12

<400> 27355

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tgggctgagc catacctcct cccaacaatg tcagcaaaac catcgccacc gctcatcatc 120
gacaaggaga cgatcccgat gggggactca cgccagaaga ctaaaacgct gaacagcagc 180
accaggacat aatagagtgg acctctcagc aattcctctg gttttccttc acgtgtcact 240
gattttacca gagcttcac c agtgtagaga cggagtccat atatcagaag cctcatggag 300
ttcaggaacg ggacaaccgc ggcgaaatac cgtgcttctg tcgaattgct gaacaagggc 360
caagatgaca tgaacaggac gccggatagc acgtgcacaa c 401

<210> 27356

<211> 163

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-H4

<400> 27356

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tgatctgctg ccagaatgcg ggcacactgg cgtgttaggc actgggcagg cccaacgccg 120
tggacgtgac catcccagag gtgtcgccag cgcttctcga gga 163

<210> 27357

<211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-H6

 <400> 27357

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 gaccacgttc acgcatcatg gcccgtgcc cgccgctagt gccacacttt cactagcacc 120
 cgtaccegcga gctcttggcc tcttgccgtc gcacatgcc tgcgcgtccg actcctgctg 180
 cgcactgacc ctgcccgtcc cgcccatcta gaggacgaca gcgccgccat gcgcccgtta 240
 cgcagcctga tcgcgcctgc tccttc 266

<210> 27358
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-H8

 <400> 27358

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 ttgtgattcg taaaattctt tggttggtgc aaaatagaat ttttctaaat aattaaatat 120
 ttatattgtc aaatgaaagc accagcaatg gtacctccat gttcatgttt ataattatct 180
 gtgattctta catatttcaa ttactatgct tatttggtta gggttaagaag tattatcatg 240
 tgacctgcct tttgtccacc 260

<210> 27359
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-H9

 <400> 27359

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 tgtgggggtt ggctgcagtg cacgctatta ctccatggct gatggacaga gctacgtcga 120
 gaagcatctt tttggatatc caaaaagagc tatcctttga cgaccgggtc aaatccgact 180

caacccagat gacttaat

198

<210> 27360
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A1

<400> 27360

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aaaaagagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatataaaa aaaaaaaggg gtaatgagaa 180
aaatcaaatag aaaaataaaa aaaaagagaa 210

<210> 27361
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A10

<400> 27361

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ggtgacggtg cgcggccgta cgggtgtcac cggcgtgccg gacaacgtgt cggcggcgca 120
cgcgggccggg gcggggctcg tcgacggggc ctctgtcggc gccacgccg gcgaggccaa 180
gagccaccac gtcttcacct tcggcacgct ccgggactgc cggttcctgt gcctgttccg 240
gttcaagctg tggatgatga cgcagcggat gggcgtctcc ggccgcgacg tccctctgga 300
gaccagttc atgctcgtcg aggtccctgc cagtacggc gacggcgacg gcgacgacgc 360
ccccgcgtac gtggtgatgc ttccgtgtct ggaggggcag ttccggggcg cgctgcaggg 420
gaacgaccgc gacgagctgc 440

<210> 27362
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A11

<400> 27362

gttgaaacgt gtttttgtca tcggtttctc aatcattggt tttggcaaca aagtgggcac 60

agaaactgga attggcacgt ccattgccat agctgggtgt gctatgtact cttacattaa 120

ggctaagatt gaagaggaga aaaggaaaaa gagcgcatga ctgctgtgaa taatattatc 180

gggaccttcc tcggacacaa catcgctgac aatcacgacc tacttctata ccttggtttg 240

ttttcatctt gagtcagtcg gtccattggt tgatcccagt ctggtgatta aaagtctgca 300

aattctgttt gtggaattgg cagcgatata aatttggctt ctttaagtaa atccggttgg 360

cggtacacag cgttattaat tcacctgtaa ctgaatggaa taccgtaatg caaaaggcac 420

aacactctgc ctgact 436

<210> 27363

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A12

<400> 27363

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gaggccacca ggaggagggc gcgcggaggc tgatcggcat cggcatcggc cccctcacc 120

tgtgctgctt ctccccggg gaggagattg atctgccttg ccctgatctc gtctggttgt 180

acgaaacata tgctgatctg agtggcccca actccccag cacacacttg atccaccacc 240

caccagctc cctgcctggt acttgcattg tccttgctgt gtgtgtgtgt gttcagcaca 300

cacttgatcc accaccacc cagctccctg cctggtactt gcatgttcc tgcgtgtgtgt 360

gtgtgtgttc agcacacact tgatccacca cccaccagc tccctgcctg gtacttgcatt 420

gttccttggc tgtgtgtgtgt gt 442

<210> 27364

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A3

<400> 27364

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 tgatcttgtt atctgtacca tctcagcatc gattttcttga aactcctaac ggaaaaaaaa 120
 aggaatacga atgggtgtac aggtttcaga ttttgaatta tatgattacg gtgtcagggc 180
 catggcatat tggatgcat ataaagacta catcatagag taaccagatg gtgtacatca 240
 tctgattacc gcaataagca gagcactaca tttgggagca atgtaaatca tgttacctag 300
 gatTTTgaaa gttgaagggt atctcaaac agactagatc gcga 344

<210> 27365
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A4

<400> 27365

atactcacac acacacctat acccattgat gaacacatta ttgacttca aaactatcta 60
 ttacaagcgt cgccttattt ctacttgtaa ctcatcaata aaaatataac tcaaactctac 120
 aactcatact actttccaaa tcttactaca caactttaaa atgctaaatc tattttatct 180
 aacttaatgc catagtataa attcatctat ataatatctt cactatctac at 232

<210> 27366
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-G5

<400> 27366

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 cgctcgggta cttttcttct tataacataa atataatgta taactatctc tctcatatga 120
 tttatgttaa tataaaaata tattacatgt acaaataat taacttaatt agtttcctct 180
 aaattataat tagtagaatg aaattcaatt tcaacgaaac aaaccggggc caagagagta 240
 ttggactgta tggaaaacag gggatgatgag aaatcctcaa gatctccaat tttttctcta 300
 ctgttttttt taaaatgtat gtcaataata gtgtccatct tgggaatgca aactaaacgt 360
 tcaacaacat tctgttggtg ggctctgaag atataagctc atatgttggtc tttatgattg 420

atagtcagtg ataacagttc tggagttggc aaatgcacat ttaaattc

468

<210> 27367
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F1

<400> 27367

aaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa 60
aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggccgatta ttaaaaaag 158

<210> 27368
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F10

<400> 27368

gcaagctaag gagagtgtga tcaccaacag ctagtgctag tcccccttcc ttccatccat 60
ccatggcatg cgtcagcacc ttccagagct gccccattgc cagaagagca aagatcaaca 120
cgaggtccag gggctgcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt 180
tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggtcgcag ctggacgaga 240
accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctcctc agctacgacg 300
acctccgcgc ctacctcgag tcgcaggaga cggcggccca ggcagacggt cagcagcgcg 360
gcgtggcgct cctgagcgag accatgtcca caccgtgct ggtggccaca gcagaccaga 420
ccctggagga cgtcgagtgc cacttcg 447

<210> 27369
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F12

<400> 27369

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gcgacaagtt tgattaaagc tatagagaaa attatgaaga ttcatatcaa atgtaaaatc 120
taaattaata agaatctagt gacatttagt atcataaatg ttattatttt aatgtacaac 180
ttaggttaga cttaatatct ctttgactcc tcaagaaagt tggactgact taccatttag 240
gatggagtat gatttattat tgtcttataa aagcctggat cggatatact tgaatatctg 300
agtaacctaca tgatgagtat ttgtaagatg tgtgaaggtc gactgctagg tatacattgt 360
cagtatgaaa tggctatcgt cttcagcttt ctttctcgtt cagtggacag tgaaatatct 420
atacgatgtg ttaatgtgga ctgctct 447

<210> 27370
<211> 470
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-F2
<400> 27370

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tggatagctg atggactcgc ttccctaact caagagttgc catgtgtctt caagccgccc 120
tgattagaga acccacatgg agatccaggc caagaatgac aacgtcttta cggacatggg 180
gctaaccctt tagagcattg agaccatatg cagagaggtc cagatcaaga acgacaacat 240
caagacggtc atggcgccac ctttttagagc gttgacacca tagttggaga ggttttagtgc 300
taggctagat ggggtgacat gagcatggct acagctgcgt tggggctgct ttattcttta 360
tttctttaat cctctatagt ttcttgacta aattaataat tcccattaag attggagata 420
aataaaccta gaacattaaa atatcttttc ttcacaaaa ctcaatttaa 470

<210> 27371
<211> 316
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-F3
<400> 27371

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agcaggttcc accgttccag agtagccaag cgaatcccggt gtctgggttcg cgcgatggct 120
gatgagcatt ttaacccccca tcaccagcat gcggaggaga gttagggttat ggttgagcat 180
cagcattcta ggagggtccc taatctgagg tacctggact tcgtccaggt ggctgttgcc 240
caggccgcgg tgtgccttgc tgggctctac tgccttacca aggaccacgc tgggtccgctc 300
cgtcttagcg ttgacg 316

<210> 27372
<211> 273
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-F4

<400> 27372
cccacgcggt cgctgacacg tgggcattta ctgncgacgc tgcagcagga agccaaatag 60
gagagggtcc atcgagtcga ccaccgaaca cggttagggc cgctgggctc gccgtggcca 120
cagcttatga attcaattcc ccaactcctta cgggcgcccg ctggattata aatagattcc 180
ctcgtcactg tcgctgtctc ggctggatcg gattcaactc acctacccca ccctctcgat 240
atcttcccag ctttggctac tttctacgcc acc 273

<210> 27373
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F5

<400> 27373
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agagagcatc aaggaaatca tcaatgagga gtttgggtgat ggaatcatgt cagccataga 120
cttctattgt tcaatttgcc aagggtgaag gggccgacgg aaaagatcgt gtggtggtca 180
catttgatgg gaagtatcta ccttacactg aacagaaatc tgaacatatg atgtctaggc 240
ctaccgcaa gacatcttga tgtggctggt gaggaggaga aacatgatcg tagtggtagg 300
tatcgggctc agcaaggatc gagcatgcc tttcttttg gtagtcata tcatcaacac 360

aataaacaga cctatatattga tgataactgt caaaaggaac attaaagtca atgttctacc 420
 tggcatgatt gctggactgt attggatgat gctgagataa aaagagagaa aaa 473

<210> 27374
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F6

<400> 27374

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 gttagctata attgatgttt agtacatata gtataaaagg caaggTTTT gttacaaaga 120
 aaatactctc tgtttgtgtg tgtgtttgct taagtgttat ggattattca ttttttTgtaa 180
 atttagtgat atttttatTTT gacctgctgc acacctagct aatagtTcat ttctctgttg 240
 gcatagcaag aagtggTaca caggTtgcat ttggacaagg aaactcttat tatgcaagaa 300
 attttcccat gcccaaaaag gattcttcag caggTggagc ttCGaagtta ccaaagaat 360
 atgcagaacc atgggactat agccatgatt atcctgttac tctcccacta aggaagccct 420
 actctggaaa tcttgaaatt ctggatgagg aagaattTgg agaatc 466

<210> 27375
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F7

<400> 27375

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 cgcgctgaa aggaggacac taagcgtgca agtcttcggc ggcaaccatt tggtagagtt 120
 caagaaggca atcaacgaag ccgaccgTc caaatgtac agaattacat acatattctg 180
 cttcaaacga tcgaagccgc tgtacagctc actcaaggga ggtcctggca ggatcaccat 240
 ggactgacag ccggcaatag catgcctTgt ttttcatgta tgtagtTtaa tggccagtgc 300
 atacgaatga tgaattcgat tctgaatcct gtcctgcat taaattcgag tgcTgaatg 360
 atctatactt cactgtTggT tttacgacca gcgtgtactt ttctggcaaa aatctagTga 420

gctggataaa gtcattgtatg tt

442

<210> 27376
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F9

<400> 27376

caaagaattc cctccccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg 60
aggaactggc cgagttcttag gtagagaatc ggttttgctt gtctcagcac ggggtctgct 120
gcgtctggtg gtggtgaagg ggagaaattc gtgagatctg ttccggatca gccgtgctgag 180
ctcgggaatc aggggtttca cacatagctt cgctcgatttg aatttgatgt actaatggag 240
tctaagggtg gcaaaaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 300
tacagcattg aggacgttcg acctgccgga gccgtgaaga agttccagtc tgctgcttac 360
tccaactgcy cgaagaagcc atcctgatat cccttttggc ttcctcattc tagtagttta 420
ggatttcttt tctgacactt tgattct 447

<210> 27377
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-G1

<400> 27377

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agtcgtccga tggcatggag tcaccgagga ttgaggtgac agcggagggc aaggcccagt 120
aacttgaaag gtccccgcga agtcccatcg gtgaaggctg acgttggtggg aaggggcatg 180
gacatgctgn tgttgctttt atgttatgtg gcggctgcag cgtggaaccg cactaataat 240
gtggaccgga acctctgtta ctgtggtttg tgctgtcgcg tgctaggttt atgctgaagt 300
ggattccttc actccacaca ccgaactgtc tgttgtagat caccgccgtg gtctcgtctg 360
tctgacttcg ttacatggat 380

<210> 27378
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-G11

 <400> 27378

 gcgttgcttc ttgtacctac tgggtgttttt cttgttggtg ggatcagagc gcacctagtg 60
 gtccgtttat gtaccagctg ttgtatgcga atccatctgt gccttcatca cctaatagcac 120
 tctctgttgc tgctggc 137

<210> 27379
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-G12

 <400> 27379

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 ggggagcggg tcagggtagc ggatggtgcg gccaacgaca ccatcaagat cgatctggag 120
 accaacaaga ttgtggactt catcaagttt gatgttggca acgtcgtcat ggtgactggt 180
 ggaaggaaca ctggccgcgt ggggtgttatc aagaacaggg agaagcataa gggcagcttt 240
 gagaccattc acgtggagga ctcccttggc caccagtctg ccacccgtat gggcaacgtg 300
 ttcaccatcg gcaagggtaa taagccgtgg gtgagccttg ccaaaggcaa gggaatcaag 360
 ctgagcatca tagaagagca 380

<210> 27380
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-G2

 <400> 27380

 cccacgcgtt cgctaccctg ctttgaaaca taaaaggatg attaccatgc cagcaatctt 60
 gc 62

<210> 27381
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-G3

 <400> 27381

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 ggcctttgct attcttgggg gagcattcct ggccaactac ttgtccgaga agctgggttg 120
 cttgttagga gtagtattat ttttgctctt tgctgctgta ttgtcttttt ggtgtaattc 180
 taatctatct gaagaatttg ctagttaggg gaaagacctc atagttccag tttggtctta 240
 gattatgaag atgaggggca aaccaagta ggcttgagac atgctggatg tagatagacg 300
 ttatacttat cagagatgat ttctatgagc ccaaatatct accagacaga ctggaaactg 360
 catcacatgg acagcctac 379

<210> 27382
 <211> 118
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-036-Q1-K1-G4

 <400> 27382

 cgccaagcgt gccttcgtgc actgatatgt ttgcnctgc tatagaagtg gtggctactg 60
 aggtggctgc agctactgag gtggtggcta ttgtggtagc agccaaagct atgatgct 118

<210> 27383
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-E9

 <400> 27383

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 tgagcttcgg gatgagaagc aaaagctgaa attggagaag gagagttag aacaccagat 120
 gaagctgatg acatcgactc caacctacat gcctcatccg accttgatgc tggcgctttt 180

ccctcaggca cccctagcgt cgttccatgc ccaggggcaa gctgcagggc agaagctgat 240
gatgcccttt gtcagctatc cggggtaccc aatgtggcag ttccatgcgc ccttcagagg 300
tcgacacctc gaagaacagt gaagcgtgcc ctgctgttgc ataattgctt cgactagcgg 360
ctggctctgc tcacaccatg cgaattagtc gcaactgaag cccccctagc tgttgatcca 420
ttgattggct ataactgatg ttgttatatt t 451

<210> 27384
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C8

<400> 27384

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gtgaatatga tgcttgtgct tcgaactggg ctgcactctg aggaccacac tcttgtttgc 120
attgtcattg agtataacctg caaggagtta ctggacatct gcatagtgta cgtctgttac 180
aagatgag 188

<210> 27385
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-C9

<400> 27385

aaaagatctt gcgctacatt aggtatgggtg ttgacgggtg agctaccctt gtgacgggtg 60
gtgatagggtg gggtgacaag ggtttctaca tccagccaac gattttctca gatgtccagg 120
acggcatgaa gattgctcag gaggagatat ttgggcctgt gcagtcgac ctaagttca 180
aagacctcaa tgaggttatc aagagggcaa acgcgagcca gtatggattg gccgccggcg 240
tgttcaccaa cagcctggac acggccaaca cctgacgcg cgcgctcaag gccgggaccg 300
tctgggtgac ctgcttcgac gtcttcgatg ctgcgattcc gtttggcggg tacaagatga 360
gcggcatggg gagggagaaa ggcgttgaca gcctgaagaa ctacctgcan gtgaaagcgg 420
tcgtcacccc aatcaaga 438

<210> 27386
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-D1

 <400> 27386

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 ggttccaccc cgcgggcgta ctccgctgcc gctgctgcgg gcgccttccc gacgtcccca 120
 gcgccatacg ggggcgctcc cccaccggcg atgtctaaga ctgccgagtt cgtgggtcttt 180
 aaagtggact acctgatgaa ctgggcgctg tagggctcga tctggccc 228

<210> 27387
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-D10

 <400> 27387

 gtcaccgatt tcttcccatt caattcgtaa atttcgtcca tgcattgggca tggaatggat 60
 ggggtgtgaat gccacgaacg attccgcccc gccggccagg tgagagatga gcctcacggc 120
 ggccttccgt gccacaaaaa tcccgcgcgc tcttctctca aagtgcggtg agcctgccgc 180
 ctctctctcg gcctcggcgt ccgggggatcc gccgccgggg gccgcgaaga gtactaaggc 240
 gccgccgccg tgggtgcgtgt accttatagc ctcatcccg atccgccgca cgtacgtcgg 300
 cgtcaccacc gatttccctc gccggctgcg gcaacataat ggtgagttaa aaggtggtgc 360
 aaaagcttcc tctgccggca ggccttggaa tctcgcgtgc cttgttgaaa gatttgccaa 420
 cagaagtgaa gcctgtgagt ttgaatcgaa at 452

<210> 27388
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-036-Q1-K1-D11

<400> 27388

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tcgagagtta aatatgctgt gatggatgtt cccatcacct taccttcgtt gaaaccagct 120
tttgacaagc ctaaccccaa acaaggcatt ggtatgctgt catggagcag cgacagccac 180
tatttcttca ccaggaatga caacatgcca actgttctct ggatatggga tatatgccgc 240
cttgagcttg ccgctgtgct cgtgcagaaa gatccaatcc gtgctgcagc atgggaccct 300
acctgcacac gccttgTTTT atgcacagag agccctcact tgtacatgtg gacgccatcc 360
ggtgcctgct gtgtcaacat ccnctttctg aacttccgaa tcgttgattt gaagtggagc 420
tcgaatggga gct 433

<210> 27389

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D2

<400> 27389

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agatgaggcc atccaaatta taaacagaaa caagtatggc aatgggtgctt ccatatttac 120
aacatttggc gtctctgtca ggaaatttca aacagacatt gaatcttgct aggtgggcat 180
taacttgcct atttttagtcc ccctgccggt cttttccttc acgggcagca aagc 234

<210> 27390

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D3

<400> 27390

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ggagatctga agttgttggt catagaaagg atcaacaggg aattcttaga ccaacatgag 120
gaggaagaaa tgcctcatgt tattagtgtt acaccagaca tacaggaggc cattggacgg 180
gaatgagggg ctatctgcaa actatcttct tgagcaagct ggtgaggaag attaagccag 240

agtagttttc gtatgggtac aaacatagct ttgcgtcaat cgatgccagg caaatgcaga 300
atgcttggtta gccggtcagc gctatgtgta gaacacatac tccggagatg aacatggatc 360
acgagaactg gaataattgc tgtcagccat ggacccatga catcggtgtt ttcgcgca 418

<210> 27391

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-D5

<400> 27391

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cgagagcgtc cccaaggcgc tgataggact cttgcacggt cgcaacgtct gaaagcagct 360
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<210> 27392

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D6

<400> 27392

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cgggtgtccc cagcggcggc ggtcgggct gtgccttcgc tgcttctgtt cgcggttcta 180
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ggcgcgtttc gggcactcgg gtatggattc ggctgtcca gcgtcagcgc tgccctcatc 360
aatggcggcc ttggtagcaa gtgcatacct taaaacgcaa cgtcatcgaa tttggacatt 420

tacatatagg acatccagaa aggaaaacac gga

453

<210> 27393

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D7

<400> 27393

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gtcgtcttgg tcgtggtggt ggccgcggcc tgtcttgccg cgccgcgata cgcggaac 177

<210> 27394

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 27394

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tcgtgaaaga taacttctac tataagcgct gcatgatcaa tatgaacctc gaccttaaga 180

aaggcgggaa ctgtcgctac cttatgacgg cgggctacgg gcactttaag agggatgacc 240

tttacttgac ctgtgaggtg gtgaatcccc taaaggtaga aaatccgtgt tctagatgag 300

gtgctttcta tgttttgga gaagctnttg gtatggtctg tctgcgctct atcatgcttc 360

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<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D9

<400> 27395

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cacatataaa aaaaacacta ccaattcaaa cacacaaacc ttcatacttt aaa 113

<210> 27396
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-E1

<400> 27396

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ttggcgtggc gtccatgggt gtcatgcgcc cagagctctg taagaagtcc atcgtgcccc 180
tggtcatggc tgggtgtgctc ggtatctacg gcctcatcat cgcgcgcac atcagcactg 240
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ctgggtgtcag ggcgaacgct catcatcctg agttgtttgt gggcatgacc ctcatcctta 420
tttttgctga agcgccttggc ccttacggtc 450

<210> 27397
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-E10

<400> 27397

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cgccaccagt tttacgagca cagcccaaatt ctaaaccgga actcccagaa aacgctggta 180
catcaggaga aggaacttct gattccattc gtactaaagg gcccaacgcc catccaaccg 240
aagtttctga aaaggatttg gctaaatcaa agcagcgtgc cagagccaga aggagattgg 300
attttctgtc aaccccagtg gagctcaaatt tgtgactgc tgcggcaagt tgtcaaaggc 360
ctccccagaa aatggatcaa ccgggtccag tggccgaaaa catctcttcg tcagatgcat 420

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440

<210> 27398

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-E11

<400> 27398

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gcgatcccac catcaaccca ggctcgggt cgccccgggtg cccgcgatgc ctctccctcc 180
tcaaccccac cgcgggaaag agggactggg ccatcacctc cgtcctgcac gacgccactg 240
ccgtggctgg ttccgggtgcc ggcgctttgc tcagtgtgtg gcacgggttt aacacaggga 300
tcccttttgt ccagaagcat gtcaaggggc cgaagtggct gcagttgtct gttgggggtgc 360
caccactgct gatattctca ggtgccagtg ctgtatttgg tgcatatgca cttncagggt 420
ttgttcagct cacagtgcgc tcttactacg cg 452

<210> 27399

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C6

<400> 27399

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gcaagctgag tgagctatca tgtcaaaaaa aaaagttatc ctgatttgac aaggtgaggc 180
attcaatcga atcgctaccc ttgtaaatgt attaatacta ctgtctcatt gaatgcaactg 240
gcttggaat aatgtaaatg atggaacatc atggaacgtt tgtttccctt cagctgcccc 300
ggtgttctta cttactatgc a 321

<210> 27400

<211> 453

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-036-Q1-K1-E12
 <400> 27400

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cagagaatta ctaaagttca tgtggaagga catgttgtaa aagatccttc aggggctgaa  180
actttggact tatgggcctc aagtcatggt aatgaaaaga accttgaaca gataagtgaa  240
cataatgata tattcgatga ctggcaggat ttccaaaact ccaatccaca gcaaacaacc  300
ttacaagttt cttcagatgc ttcattatct gatataacct tggcatcaag gcctgatgct  360
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taaaaggagg gttctaata atcaaaagca ttt                                     453
  
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<210> 27401
 <211> 134
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-036-Q1-K1-E2
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ttttaatgag ttgggttgta ctcttttttc ctgtctaaaa aaaaaaaaaa aaaaaaaaaa  120
aatattataa ttat                                     134
  
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<210> 27402
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-036-Q1-K1-A7
 <400> 27402

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gacttttggg gcacgagtgc gcatgagatg gagaacagcg ggatccaatc gcagaggagc  180
  
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atgtcttcga tcagcacgtt ggctcagtcc agcgatcagc atgcgtcagg aagttgcagc 240
aaccggaatg agtttatgaa tcaaggtctt atgctctgga accagaccag acaacagtgg 300
gttgaagca aaaaacgcca ctctagatct caacagcctc gagaaccaa gttgagctgg 360
aacacaacgt atgaaagtct gctaggaagc aataagctat tctccaacc gatacctttt 420
ggcaaa 426

<210> 27403
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-A8

<400> 27403

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cgttgtgccg acagagaagc ccagggaag agtgaggcgc cattccgacc ctccgaaggt 180
cgatcctgcy acgctcaagg atgcccctgc tgcctgacca gtgaccaggc cttatgtgat 240
tgtaggttt cgtgctcttt taacaccgtg atgtattatc tgagttaggt tgctttgttc 300
gtgtcatcgt atgatctgtc cgggttgatt gtgagacagt tctaactgtg ttacagaca 360
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ttgattt 427

<210> 27404
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-A9

<400> 27404

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agaaggttac ccgaagattg gccttcacg atccactact gcggctagct ttggaaaagt 180

gaactcaagc aaacttttctg agtataaagt agaggatctt gctgcagcct tactgaattc 240
 tttcacatac aacattggac agatagccta ctttgtggct aatctttcag gcctgaagag 300
 aattttcttc cgaggtgctt atgtctgtgg tcatgagaag actatggaca agatttctcg 360
 ttccctaaaa tatttggtcca aaggtgaagt tcagacgaca tttctatgcc atgaagggtt 420
 cttgggaaca ctangtgcac tntggagtta tgagaaca 458

<210> 27405
 <211> 119
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B1

<400> 27405

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<210> 27406
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B10

<400> 27406

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 aaaaaaaaa aggtactaat attaataaat aataaacata aactacaaca taataaaaaa 120
 taaaaatcat atcaactaca aaccattcat tctttaacat cactataact atttgcactc 180
 cttctcttat at 192

<210> 27407
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-036-Q1-K1-B11

<400> 27407

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aggctgcatc cgagaggtca tcctcatcaa gtcacagcag cagcagcagc aaccacgact 180
ggcggaagg gtcctcggtc cttgatctca agggcgagaa ctactttctcc tgcgccgtcg 240
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tcaaagagtt ggcgacagcg acagctggct tccaggccac ctgtgctgac tacatgcatg 360
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agaatattca ttcctcgat ggcgacaga gcta 454

<210> 27408
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-B4
<400> 27408

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cgtcccatgt tccagagcat gctgagccac cgggcgaca gttgtgtcag gggcgccctc 180
tacacctacg acgcgttcat cgaggccgtc agcaagttcc ccggcttcgg caccaccgga 240
gacgatgcta ctgcgatgct gatgctcgcc gactttttca gccagacgta ccacgaaacc 300
accgttgat gtgcgactgc tcctgtggga ccgttggcct ggggatactg ccgggttaag 360
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tacaactaca tgctcgccgg gcaagcgctg aacc 454

<210> 27409
<211> 140
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-B6
<400> 27409

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tttttttttt tttttttttt

140

<210> 27410

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B7

<400> 27410

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gccgtggcgg tgtccgtcct ggtgggtggc gcggcgccgg agtgcgacat gagcaacgag 180
cagttcatgt cgtgccagcc cgcggcgccc aagacgacgg acccgccggc cgcgccgtcg 240
caggcgtgct gcgacgcgtt ggcggggggc gacctcaagt gcctgtgcgg ctacaagaac 300
tcgccgtgga tggggtgcta caacatcgac cccaagcgcg ccatggagct tccggccaag 360
tgccgctcgc ccacgcgcgtc cgactgctag cagtgtgcta gccaagccaa gccaagcagg 420
aaggcccccgc gcattgctag ctggacgtgt ctgtgtgtgc a 461

<210> 27411

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B9

<400> 27411

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gtatctgctg aggtacttga ttctagcttc tgccttcga ttggaaggc taagatagag 240
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gccgctgata tact 314

<210> 27412

<211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-C10

 <400> 27412

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 ttgagaagtg tgccaattct agagctgtaa ccattttcat ccgtggggga aacaaaatga 180
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 aaactgctgc agatcggcac ccgggagttg agcagtatgc tatcaggta ttcgctgatg 360
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<210> 27413
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 27413

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 tcgtcactga gtcgtttctca gtcacgacat gctgatgtcg atccaccgt caagaacaag 180
 gtgcagcaga gatctttctc ctcgtcgtg cttcctcgcc atccggagat ggtcgtcgcc 240
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<210> 27414
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C12

<400> 27414

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atgatgcttc tgatatctca caggctgacg gtgtacaaca tgaggagcac tctagtatct 180
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ccagcaacaa aaaagacttg gttaatatag ctgttcaaga aagtaaagcc tttatcttaa 300
aaaatcctgc cttccaaatc ttggaagaga gtgggtccagg tttggatgta tctacagaca 360
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<210> 27415

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-A6

<400> 27415

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gccggagaag atgatgggag gtttcctctc cagggtccta cggctggcctt ttgtctatgc 180
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agattttaca atatcatggc taccgtttta ctcagaagca aagggtgttg tctttgtata 360
tttgtggtac cctaagacaa agggaactac gtatgtttat ggaactttct ttaagccata 420
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<210> 27416

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C3

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gttttacctt gtgccatgta cattgtgggt tattgttatt ctatgggtgg taatagggtga  180
gctttatgaa ttatggaact tctgaaaaag tccagcagaa aattttgtca atgaaccatg  240
acaacaaaat ccattgaaga tgtattcttc agcgtaagtg tataacttga ggatgtttat  300
taggaggcac cgtgtattgc aagattgtat gtttaccatt atttcataga aggatgctat  360
tgtgttttaa aaaaaaatg attataca                                     388

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<210> 27417
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C5

<400> 27417

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tccaggagcc ggagccggag ccggaggcct agtagatgaa gacgttcgat ccgtggccgg  180
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gctgtatcat cactaatatg acggccaact tcaccgagga ggacctcaag aactccaagt  300
tcgtccagga gcacaagaag cgctgaccaa ccagtaatct atgacatgga cgccggatgg  360
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<210> 27418
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G8

<400> 27418

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tcttatgcac tggccctata ctgaaatcac agaagggaat attcacagca gggctcttca 240
agaactcagt gagagcttcc aaagacccaa gggtagatgc ctgtacatag acaccttcac 300
cactcctgtc aatccggctc ctaaccctgt tcatctcttt cataacagct tcattcagtt 360
tgtctaaatc atcatcaggt cctaacacgt aaagggtgt ccttgcaatt gcatgttcga 420
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<210> 27419
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-G9
<400> 27419

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gccgagatcg aggcagagaa ggctgcagct gaggtctcaa agaagggtgc ctccaagaac 180
gcctaatttc ccgtcttggt ctatggctcc ctccaaccct gtgtgtgtgt cccgttttta 240
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cttatatgcc tgtgggttaa atgatgtaca atgtgctcgt ctacatgcct tcttcggagg 360
ttttc 365

<210> 27420
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-H10
<400> 27420

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agcctctgaa gattgtcatc aagacctgtg gcactaccaa gctcctgctc accattccaa 120
gaatccttga gcttgctgaa gagctgtcta tgccacttgc tgctgtgaag tactcccgag 180

ggacgttcat ctttcctgat gcacagccag cccccacag gagcttctct gaggaagttg 240
 ctgcacttaa ccgctacttt ggcggcctga aatctggtgg taatgcttat gtgattggag 300
 atccagcatg acctgtacag aagtggcacg tcttctactc cacttagtac ccatagcaac 360
 caatggttaa ccttgagatg tgcattgactg gtctggacaa gaagaaagct tct 413

<210> 27421
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-035-Q1-K1-H11
 <400> 27421

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 gttctctact caggttgtag agttggattt cctgtacccc agcgagggca tccaccggcg 180
 ctgggagagc ggctacagga taacttccac ggcagccacc aacgaccaag ccgctttcat 240
 cctgagcatg ccgaaacgga agccgatgga cgagacacag gaaacgctgc ggacctncgc 300
 cttccccagc tcacacgtca aggagaaatg ggccaagaac ctctacatcg cttcgatttg 360
 cttcggggcg accgtgtgct gatcgcgcg gcctgggaaa tggaaatcga aacgagggcc 420
 accgatccgg tacggtg 437

<210> 27422
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-H2
 <400> 27422

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 gtgcctcata gagaaatttg gtgccaagga agaagaaata attctttatg gacaatctgt 180
 tggaagtggg cctactgtag atttgtccag tcgtttatct cagctgagag ctgttgcct 240
 gcatagtact atattgtcag ggctgatagc tttgtatcct ttgaatggca catattggtt 300

tgacaatttc aagaatattg atcaattact ctaagttaca tgcctgtgc ttcattatt 359

<210> 27423

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-H3

<400> 27423

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gtcaacttgt acagagagtg atcatatttc ttcttctttt ttacgttga ttacacccaa 120
ttagtatata tagttgcata cccacttgga tgatttagtt agtgaggaa acaagtgaag 180
atgagctttg cactgttcaa tgcttgtgct tggaagaagg atgctcttgc gcccgcagtt 240
cattgttatac tggaaagtgg cttgctactg agcattctct tactacatga tgtaaattgt 300
gaatcttcat caaagctggc ttatggctga agagtcagta tcatagtttc ctttgatggg 360
agaagacagc aaagccagct aatctcttta accaagaaat cggctagtag ttttttccct 420
tttgaacctt gtcattgatgc cttgtcttct ggata 455

<210> 27424

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-H5

<400> 27424

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actacgcctt cttcaagggc aagaccctgg acgacgcaa gacctacgtc cccacggctc 120
ccgcgcgggt caccgatgcc accgagaggc tgatcaaggc cggcgccacg cacctggtgg 180
tgccggggaa cctgcccattg ggctgctcgt cggcgtacct gacctgcac ccgggcccga 240
acggcagcga ctacgacgcc gccggctgcc tcaggacgta caacgacttc gcgcagcacc 300
acaacgcggg gctccagcgg aagctgcggg cgctccgggc gaagtaccgc caggcgagga 360
tcatgtacgc cgactactac ggcgccgcca tgccttttgc caagaacccc aagcagttcg 420
ggttcacgca tgggccgctg cggacgtgct gc 452

<210> 27425
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-035-Q1-K1-H6

 <400> 27425

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 aaccatactc aacaatgcca cctagcatga taggagattt attgccacgg acgagagtac 180
 ctccgtctgg gcctagccat cctccacca tggcggcgat gccaccatca tggagaatgc 240
 catccgctgg acctatgaag cctncttcca tggcggcgat gtcacctgat gttgttgggg 300
 atttgctacc acgaggacct agccatccgn caccaagggt agcgacgtca cctgatgttg 360
 ttggggattt gctaccacga ggacctagcc atccgtcacc aagggtggcg atgtcacctg 420
 atgttgttgg ggatttgcta ccacgaggac ct 452

<210> 27426
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-H7

 <400> 27426

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 atcaccgctc tcgccttccg tccctgcgca tccgccgtgc ccatggacgg tggctggtcg 180
 aacggcggcg ccacctggta cggcccagcc aaggggcgctg gatccgacgg tgggtgcgtgt 240
 ggggtaccagg gtgcgctcga ccagcctccg ttctcgtcaa tgatcacctg cggcagccaa 300
 tccatcttcc aggacggcaa gggctgcggc acctgctacc aggtgaagtg caccggacac 360
 gcgtcgtgct ccggcagccc ggtgacagtg gtcacaccg acctgtgcc cggcgtgcg 420
 tgccaggtgg agcccgtgca ctttgacc 448

<210> 27427
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-H8

 <400> 27427

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 aagaaaaaaa aatataaata aataatacta taatattaaa actaaaattt aactctaata 120
 catattcaat attattttcc ttcttttatt cattatattt aatttatatt ttttctactt 180
 tttatatatt cttctttttt ttatctcttt tttcttattt ttattttttt tttttttttt 240
 ctatttttcc tttatttttac tactttttat tttttaatat tattatttct tttttataat 300
 atatttcttt taatatattt tttatttttt tcttatatta ttttcttttt attttttttt 360
 atctatttta tatattaata tctttatatt ttttttcttt tttctatttt tttctttatt 420
 ttttatattc ttttatctct ctttttttat tttttttt 458

<210> 27428
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-H9

 <400> 27428

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 atcctctgaa gattgtcatc aagacctgtg gcactaccaa gtcctgctc accattccaa 120
 gaatccttga gcttgctgaa gagctgtcta tgccacttgc tgctgtgaag tactcccgtg 180
 ggacgttcat ctttctcgtt gcacagccag cccccacag gagcttctct gaggaagtgt 240
 ctgcacttaa ccgctacttt ggcggcctga aatctggtgg taatgcttat gtgattggag 300
 atccagcaag acctgtacag aagtggcacg tcttctacgc cactgagtac ccagagcaac 360
 caatggttaa ccttgagatg tgcattgact gtctggacaa gaagaaagct tctgtctttt 420
 tcaagactta tgctgatgg 439

<210> 27429

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-A12

 <400> 27429

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 cagcgccatg acgctcttcg gcgccgtgcc gcccgtgccc tccgacatcc tcgccaaggc 120
 cttccgcata agcagcggcg aggtggacca catcaaggcc aacttcgcgc ccaagtagag 180
 atccaacgtc tgcattccct tgattttctc aataataaat ccccgcggtg tgcagttcga 240
 tttgttcgtc ttcggttggt ttgcttcgag acattgctga ccacgcttgt cactgctaata 300
 ttgtgcgag cgaggaggtt gcttgtgctc cgataaataa gataaataat caattct 357

<210> 27430
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-A3

 <400> 27430

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 gggatcatccg agctggcagc atcagcacac gtactgagcc ctctgtact ccttggttat 120
 ggtggctctt gagctgtcac aagccaagtt tcgctgctt gggctctcac tcgatgcaga 180
 gtaagctgct ccgattcagt agagccttta ccttgagcgc tgagagggtc ccaggcttac 240
 aacatttaga gctttgcgtt ttaacatggt gcgtgatgtg ccagactgat gcattgtggt 300
 ttgttttcaa tagtgagtta agatggcgga agctcaatcc tgattaactg acacatgata 360
 acctaacaag ca 372

<210> 27431
 <211> 121
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-036-Q1-K1-A4

 <400> 27431

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gatcggcgga aaggttgccg tggctcgcgg atacggtgat gtctgcaagg gttgggctgc 120
t 121

<210> 27432
<211> 122
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-A5
<400> 27432

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ggtgctcgcg gcggcgctcg cggtccttct gctagcgtct tcatcgtcga agacggcccc 120
cg 122

<210> 27433
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-G7
<400> 27433

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ttcagaatcg agattccagt ctgtagccta ccttcagcaa atctggtggt ttgaggtggt 120
tgggtgaagtc gatttctgct tccctggttg aacatatagc ttgtacttca ggttccatct 180
tgggaagttc tacagacgat ttggccgccc ccagtcgacc tcagagcatg ttcattggttg 240
ggacaagaag cctgttcgct tccagctatc gacctctgac gggcagcagg cattgtctca 300
gtgctacctg gaggagcccc ggagctgggt cctgtaccat gctggcgatt ttgtggcctc 360
aaagcctgac cagctgatga agctgaagtt ctccatggca cagatcgact gcacgcacac 420
aaaaggcgga ctgtgcatcg acttcgttct ta 452

<210> 27434
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F1

<400> 27434

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ggggtcggct ccccagaga gcaggagccg cctcgctcct gccgggtccc accatcgaga 120
cgatgctgtc caacctcatg taccggttcg actggcagct gccggcggcg atgaaggcgg 180
aggacgtgga catgaccgag gtgtttggga tcacggctctc gaggaaggag aagctgctcc 240
tagtcccaca ggctgcgtga tgatgatgat aatctagtgc aatgcaatac acggttttaa 300
attactaaca ccaaaggctg tggtactgga ccttacataa taaataataa atgtgctact 360
actatatagc caggcttcac agtaacacat acttctattg cccatgctac atatat 416

<210> 27435

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F10

<400> 27435

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ggccacgaga aatcgatgct gatgactccg atgtggagcc taaaagcgat gacgagagcg 120
atgaagatga tgatgacgac gacactgaag ctctaattggc agagcttgag aggattaaga 180
aagaaagagc cgaggagaag cttagaaagg agcggcaaca agcagaagag gaggccaaga 240
tgaaggagggc tgaactgatg cggggaaacc cgttgattaa tatcaacaat gctggctcct 300
tcagtgttaa gagaagggtg gacgacgacg tggatttcaa gaatcaagca cgaggagaga 360
ccaagacacc gaaacggttc atcaacgaca ccatcaggag tgatttccac cgtaaatttc 420
ttcagagggtt catgaagtga 440

<210> 27436

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F11

<400> 27436

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaata aaaaaaaaaa aggggcacac 60
tctggataga ggtaaaatTT tacgcacgct cgcacgac gatatatctc ttatattgtg 120
tcccacatat aaaatactgt ggacggattt tcaaacgat gactctgaa 169

<210> 27437
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F2

<400> 27437

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ctcatagccg gggctcctctt cataactctgg catgccaaat tattcttaaa cgtaacttc 120
ccc 123

<210> 27438
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F3

<400> 27438

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gggcgcccc aagaggacta atgttctctg gatgaagcag cgtccaccac gtgggtataa 120
tccataccat ggctaccctt atagatcata cggggcacccg tatttcccc catatgggta 180
tgaggagggt cctagattcc gccggcctat gcgctacaga ccttacttct gaagtacggg 240
gtagggtaat gaagttcaat gcaaaaccag cccatgggtca ctgggtcagtc ccgggaataa 300
tcaactgtat cgtttgcaact ggtgcggctc aatgctcctg ta 342

<210> 27439
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F4

<400> 27439

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 gttggagggc atgttctactg atttgaagac ctctcaggat actacacaag gggttttatgc 180
 atctacttcc tcggagctgc cggcagatgc cccacaaatg tctgtccaga tactcacaac 240
 tgggtcatgg gcaacgcaaa cctgcattac ctgcaatctc ccctgaaat tgttttctgtc 300
 tcagagaagt ttctggcctt ataaccttgg cccacataat gggcaggagg ctaacatggg 360
 aaaaaaacat tggggaccgg ttgcattaaa gttacatttg g 401

<210> 27440

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F5

<400> 27440

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 gggcgcccca agaaggacta acaggtttcg gatgaagcga tgtggcacca ctccattgtg 120
 acgcatacca tcaataccat gtaccagcat gactggcacc ttatttccac caatatggct 180
 atggaagggc tcatgaatga cgaggttcta agcactacct acctgaatgc cgaagtacta 240
 cttaggccac aagatgtcaa tggatgacga t 271

<210> 27441

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F7

<400> 27441

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 ttactagaga tgggtgttctg agaactgatg tgaagacacc tagtaaggca tgagcaactg 120
 tggctcattc gatgagtga atgactacag tgggcaatac gagaaaggct atcactccaa 180
 atgcagctag aagtagcaag ctggaaacat aaagcaataa ctacagactg aagggaacctt 240
 cagcattgga tagccactct actaggtcaa acagaatgga cttgcaagtg tctggctagc 300

agaaatcgag ttctgtgaac cttcctacaa ggaaaatttt cagttctact gctggagatc 360
ca 362

<210> 27442
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F8

<400> 27442

acggtagatt gctatgatgg ttgagattta ctcttgaacc aaagatgttc tatcttatat 60
cctgaattag ttatcccaaa aaaaaaaaaa aaaaaaaaaa ctaccaaact actacaacat 120
aattaaaaaa aattcaccaa ttaaaaaaaaa tcttatagat aatacaaaaa gagcttattc 180
attctactac ctttttaaaa aaaatatgat gccccacaa agta 224

<210> 27443
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F9

<400> 27443

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aaaaaaaaaa agctaaaagc cggcactaat aatgatatta acttg 105

<210> 27444
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G1

<400> 27444

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cagaggatca ttcgattagt gaaatgtcta cagtgggcaa tacgagaaag gctttcactc 180
caaatgcagc ctagaagtag caagctggaa acattaagca ccttactcat actgaagggg 240

ccttcatcat tgaatatcca gcttactaag tcaatcataa ttgacttg

288

<210> 27445

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G11

<400> 27445

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gatagccatg ccgagcacct cgccagaacc gtcgcagcag ccagagccca ccgtctccat 120
gaatccagcg gttccagctc cgcccaccca tgcagcgcg cttggtccctg cctcgtcctc 180
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gagccccgacg tcccggcgag ccgtcctccc tgtccctacg tatggctagg ctcccctgca 300
gcgcggacag gaggccatgg cgcgcggtg agtgcccctg cgagcgggcg tcaagaccag 360
cccccttctt ctctgccata taccctctt gctgcaagtt gaagaaccgg tcatggagga 420
gaaaatagcc tgag 434

<210> 27446

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G12

<400> 27446

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cgggcgctgc ggctgactgc ggcaaggaga ggtgtcacgg ggtgctgtac gacgacgagg 180
cgtggcgggc gtgcctccgg gacatccacc cggcgtggct gtcgcctac aggtcatct 240
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tctactacta cactcagtgg accttcattc tggtgactat ttacttcggg ctccggcacgg 360
ccctgtccat ctacgggtgc agcaggttcg ccgaggagaa cgtcgccgcg gcggcgcgcg 420
cggcagaca 429

<210> 27447
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G2

<400> 27447

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 gagacgacca tgaaggcgct ggtggtgacg gtgcttctcc tcctctcttc caccctcgcc 120
 gcggcacagt ggtgcggtgtg caggcaggac gcgtctcagg ccgcgctgca gaagacgata 180
 gactacgcgt gcgggtcggg ggcggactgc aactccatcc acgagacggg ggcgtgctac 240
 aacccaaca ccgtcgcggc gcactgctcc tgggcggcca acagctacta ccaggacctc 300
 gagcgcggcg agctgcgccg tggcgcggct gagtttgccg acggcga 347

<210> 27448
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G3

<400> 27448

aaaaaaaaa aaaaaaacac ataaaaaaag aattaaaatc taaaaataaa ataataaaaa 60
 aaaagggaca aagagtgaag gcgctttagg ggatccaggt tctcgacttc tcttatacta 120
 tatccaaggt acagtatagc gtatcctaac ttc 153

<210> 27449
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G4

<400> 27449

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 tgatgcatag aacatttgtg gtataagatt tttctgttga tgtttgcagg ttatttttcc 180

agcacttgac attcgagtga aaaatgtcgc aaggacatat tctcttgaac ataaaggaga 240
 aaatgatctc ttgcacatc agacaaggct tctactcttt cagaggaaag tcattttt 298

<210> 27450
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-035-Q1-K1-E9

<400> 27450

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 acctgccgga ggcgtgaaga agttccagtc tgctgcttac tccaactgcg cgaagaagcc 180
 atcctgatat cccttttggc ttctcattc tagtagttta ggatttcttt tctgacactt 240
 tgattctgac caatctctct ggctgctgc ttctgataa tcgaccagtt cccagtcctt 300
 gtccttgca ctctccctc ctccatctcc agcattgtgt tctgattcac ctgctccaat 360
 ggctgntctt tctgctgctg atgcttcccc ggtctcagct atcggggttg agggctatga 420
 gaagcgcctt gagatcacat 440

<210> 27451
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G5

<400> 27451

gatccgcaag taccagaaga gcacggagct gctgatccgg aagttgcctt tccagcgcct 60
 ggtccgtgag atcgtcagg acttcaagac ggatctgcgg ttccagagcc acgccgtcct 120
 ggccctacag gaagccgtcg aggcctacct cgtcggcctg ttccaggaca ccaacctctg 180
 cgccatccac gccaaagcgcg tcaccatcat gcccaaagac attcagctcg cccgtcgcct 240
 ccgctgcgag cgcgcgatg cgtatctcgc gctcggcccc agtggccgcg gagggatgga 300
 agaaggcaat ttgtaacctt atgctgtttg ttcgctttta gacggcgtgg tgaagaacta 360
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<210> 27452
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G6

<400> 27452

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tgtatcactt ctgaccttta ctctccgtgt acatcctgat cggcttgatt atgttgacca  180
agtgctgggt gcatgtgtca agaaactttc aggcaaggca aaacttgaag atagcagggc  240
aacaaagcaa attgttgcac ttcttagtgc tcccctggaa aaatatagca atattgttac  300
ttcattagaa ctttcaaact atcctcgggt tatggattat cttgataatg ctacaaccaa  360
agtgatggct gtggaataaa ttcaaagcat aatgaaaaac acaacctgca tatctacttc  420
tgacaagatt gaggcactat tcgatttaat taaggggct                               459
  
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<210> 27453
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D10

<400> 27453

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aaggagtcag atcagtggag aaaatttgag cttttctgta gcgtgaatgt tgataataac  180
aggtcagtat gtgaggaagg tttatttggg tggaacgggt cattcgtgtc gtgttaatcc  240
agcaaacctt gtgtaggtta agtaacaagg cttctgtgct gttaaaaata ttttactatg  300
tcatttcttt ggacggtttt ctgaacaaat gtgtggtaac cattaggcct tgttcgggtt  359
  
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<210> 27454
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D11

<400> 27454

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cggggagaag ctcaaggaga agctgccggg ccacaaggac ggccaccaca cgcccgacc 120
gtccccggcg cccgcgcccg tggagacgca tgcccaccac caggaggaag cgcacaggcc 180
gcacgtcgtc ccgaccccg ccccgccgccc ttcaccgcac gtccaccagc acgaccacgg 240
cgtcgtcgtc caggacgacg tgaagaccgg gaccccgccg catgcaccgg atgaggagaa 300
gaaaggcctg ctggacaaga tcaaggagaa gctccccggt ggccacaaca agaagcctga 360
agccgctgcc gctgccgcac cggtccgctc cgtccacgcg ccggcgccgg cgccgcacgc 420
ggagaacgtg agcagcccgg at 442

<210> 27455

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D12

<400> 27455

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ggcgacggct gcatgatggt gcaacgtctg acctacctca agctgcacag ctattccact 120
tagtccaacc aatcacattt tcgacaagaa ccctgttggc cagctcgaat acc 173

<210> 27456

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D2

<400> 27456

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gcaaggaggg aaggccaagc cgctgaaggc gcccaaggcc gacaagaagg agtacgacga 180
gacggatctt gcatatctgc agaagaagaa agatgaggaa aaagcactga aggagcttaa 240

ggccaaggca cagaaggcg cgattggggg ctcggtctg aagaaaagt gaaagaaatg 300
agactgggtca cccgtctcca atacctagag gatgataagg caactgtcta tctgtgttgc 360
gcttcactaa gtgtgattgt aacagtggta ccttctgtgg tctgtgttcc gcgaagttgc 420
aattgggtgc tcgatcgaaa gatggt 446

<210> 27457

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D3

<400> 27457

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ggtgctcccc gtgcttcacg ggaatttggc gacaaaaaaaa aaaaaaaaaa aaaaaataaa 120
aaaaaaaaaa aaataaaaac aaaataaaaa aaaaaaaaaa actaaaataa aaaaaacgac 180
gtgtaaatta ctattatata taaatacaaa atcgcataga taagaaga 228

<210> 27458

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D5

<400> 27458

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gctgcgtgca tttacgacac tatgcgaaca gatcatatga ttgcggctat atatatatct 120
atggctcggg tgtaacaata atgaccgcta catttcagag ctatagtact atgacgtgaa 180
tcatatatag tcagtatata tacggaaggt ctgctcgccg tactac 226

<210> 27459

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D6

<400> 27459

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gcaacaaggc aggcaagttc ccgaccctgg ttactcacca ggaatccctc gagtccaagg 120
tgaacgagac taaggcaaca gtcaagttcc agtcaagaa ggtcctttgc atgggtgtcg 180
ccgtcggcaa cttggcgatg gaggagaagc agatccagca gaacatccag atgagcgtca 240
acttccttgt ttcccttctg aagaagaact ggcagaatgt gagatgcctg tacgtcaaga 300
gcaccatggg gaagccatac aggggtgttct aagtctgctc ttttgtgaag tctgctaggt 360
tctggcaccg aggttttatt gaattaaact cttgttaaga gtatgttttt ggacgatcct 420
atatttcgtc ctggcgctac tatgtttcaa aatggt 456

<210> 27460
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-D7
<400> 27460

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agcccgtgct cggctacgac gacttcgccg ccagcctccc cgccaacgag tgcaggtacg 120
ccatcttcga ctacgacttc gtcaccgagg agaactgcc aagagcaag atcttcttca 180
tcgcctggtc tctgacacg gcgcgcgtga ggagcaagat gatctacgcc agtccaagg 240
agaggttcaa gggggagctg gacggcattc aggtggatct ccaggccacc gactccgccg 300
aggttggcct tgacgtcatc cagggccgtg caagctgagg atgccacg atgaactgcc 360
catgccagag gatgtatgag catcatcagt tcagatgaga acttgactgg ggggctatg 420
taaaaactgc atccaccgca gtgatgaaat c 451

<210> 27461
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-D8
<400> 27461

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tggtagaatg acgatgaggg gtctctctgt tgcggtcgct ctggtcgtgg tggtagccgc 120
 ggctgcctt gccgcgccgc ggggcgcgga cggctcggtc gaggcgggtg cgacgccgac 180
 ggactctgtg gctctgatgc tggcgccgtg cgcgtcgggtg gcgtacgacc cctgctccgc 240
 gccgttcgtg tcttgcttca acgcggtgca cgccattgtg aagcacagcc tcattgtgcct 300
 ctttgccggtt atgcttggtc aacagctgct gaagcacctg tat 343

<210> 27462

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D9

<400> 27462

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 tccaaggctc ttggtgtagc ttgccactct caccaatcaa gttttcatgt ctgatctcga 120
 cattcagatc ccaactgcct tcgatccctt cgctgaggcc aatgctgggg actctggtgc 180
 agcagcaggg tcaaaggact acgttcacgt gcgcatccag cagcgtaatg gtcgcaagag 240
 cctgaccacc gtccagggat tgaagaagga gttcagctac agcaagatcc tcaaagatct 300
 caagaaagag ttctgctgca atggtacagt ggtccaggac ccagaacttg gacaggtcat 360
 tcagctccag ggtgatcaga ggaagaacgt ctgcaatttc ctgctccagg cccgcattgt 420
 gaaagaggag cacat 435

<210> 27463

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E10

<400> 27463

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 tgagaagcac ggcttcacat ccacagccg tgctaagggt gcctccatcg acaagaagat 120
 tgggctgagc aataagatta ccacgggcac ttcgttgggt agcgggaagg tgaaggagat 180
 ggaccagaag ttccaggctc ctgacaagac aaagtcagcg ttcgagggtg ccgagcagaa 240

ggtgagcagt gccgggtccg ccatcatgaa gaacagggtac gtcttcaccg gcgcgtcgtg 300
 ggtcacccga gcgttcaaca aggtcgccaa ggctgccacg gacgtcggga cgatgaccaa 360
 ggagaagatg gcggccgagg agcagcagaa gggcttctcc ggcccgtcgt ctaggagcca 420
 ctcgtaacg 430

<210> 27464
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E3

<400> 27464

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 ggcttcggca cctgctgact gctgcttcat cctcgattgt accaagcatg catatacaga 120
 ctatgctata caaactcctc aacctagttc actggcactt gectgacata attattccac 180
 gagacatgat caccaccatt acctgatata tcaactgtcat atc 223

<210> 27465
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E4

<400> 27465

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 gattgtgggc tgcagcgctt acacgggaga ggggcttctc gagggcttcg actggctggc 120
 ccaggacgtc gcttctcgga tctacgtcct agactgatgc tatttgccgc gtcagtcgtc 180
 ctagacggat gctatttgtc gcgtcagtc tacttgagca tcattagagt gtggtgcctg 240
 cattaaagcc tgtactaagg ccctgtttgt ttaaggttta aggttttagga atttgtgttc 300
 actcctactc actttgggat tgccggggga attggttgcc tggggtatat tgaaggtaaa 360
 ttaaacgttc atgagttcat ttctctttat ttatatgtca gattaaggtt 410

<210> 27466
 <211> 325

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-E5

 <400> 27466

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 cctaacgacc agagttatcc gcaagcttta caagtcgctt tatcaaattc ccacttgact 180
 gcagggacca ttgattgatg ctctgaatga caataatcgt ctatgctggt gcaacataaa 240
 tttgggctta agcatcgaga tgatggctac tggctctact gatgcattct agcattcgcc 300
 tacatactac tcaatacata ttgga 325

<210> 27467
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-E6

 <400> 27467

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 ttttgctagc tgagacacaa ccagcgaaga tctgttctca ggttgggtctg tgcacttttg 180
 atggcactca tgggtgtcagc gctggaattc ggagcgtagt ggatgatgaa gctgggaaat 240
 caaatggtgg tctcaagagt gatccaatgt gcaatgcctg tgagatggct gtggtatgga 300
 tgcagaacca acttgcccag aacaagacac aggagctcat tctgaactac attaataag 360
 ctttgcgagc gtcttccgag tccaatggga gaatcagccg tggactgtgg cagtcttgcg 420
 tccatgcctg aca 433

<210> 27468
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-035-Q1-K1-D1

 <400> 27468

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 tccacgcgca gagcatcctc gccatctggg cctgccaggt cgtgctcatg ggtgccgtcg 180
 agggctaccg cattgccggc gggccgctcg gcgaggctcg cgacccgctg taccctggcg 240
 gcagcttcga cccctcggc ctggccgacg accccgaggc cttcgtcgag ctcaaggatga 300
 aggagctcaa gaacggccgc ctgccatgt ttccatggt cggcttcttc gtccaggcca 360
 tcgtcaccgg ccagggcccg ctcgagaacc tcgctgacca catcgctgac ccagtcaaca 420
 acaactcatg ggcctacg 438

<210> 27469
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-E8
 <400> 27469

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 cagggataac cgccatatca tgactcacta ctaatcgagc agcacaattt tgggtgtacgg 120
 cattcaagta gcatttgact atctgagtgt tatgctttac caggcttttg ctttttagtat 180
 tgcctttata ttgagtacta ctacaatact tcatgtcgct ttgttttcaa aaatacttta 240
 tgtcaatttt gcaagtctga ttgtctgaa ataagaggct catgctgttg tgcggtgctt 300

<210> 27470
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-B12
 <400> 27470

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 ggcgtcgtcg tcctcgagct cggcgcagcg ggcagctgcc gcaactgctcg tggccgcccgc 120
 cgtggcggtg tccgtcctgg tgggtggcgc ggcggcggtg tgcgacatga gcaacgagca 180
 gttcatgtcg tgccagcccc cggcggccaa gacgactgac ccgccggcc 229

<210> 27471
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B3

<400> 27471

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ggagttcggg taccatcatc aagcctacat ggatcagctg aacaacgagg acctggtgga 120
cccgaatgag catggtcgat ctggatggat atgaaatgct ctgatgaccc caaataaagt 180
tgatgcacag cagggattca ccctgcatga cgcgagacta tgtattgagg ctaagacctt 240
gcgtgtgtag tgttgagtgc gaagctttgt tactttataa atcgttgtca tgcccaaaaa 300
tatatattat gttttaatta 320

<210> 27472
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B5

<400> 27472

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tcacggcgaa tgaagaaaca atctctccta gaataactac atggcagcac tcacagctcc 180
atccttcctt tcagcactct ctcttgac 209

<210> 27473
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B8

<400> 27473

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gtcgactgat atccgtcagc ctaggcacag ctccaactgt acaattaata ttcaactctc 180
gagtaaataa atctaaagct gagaagtata ggggccaaat tctgcaggca tttgaatctg 240
ttctttcttc taccataata cttgaaattc gatatgaatc taaggatgat ctggcagcag 300
gccatgctcc agttattttct gcctaccctg aggatggctc ctcaaactctg gtattaagga 360
ggctcttttac taaacatagt tcagtttctt cggggggcga gaacttaatt aggaggcttc 420
agaaagatag tgttggtccaa cttggtagct caaatc 456

<210> 27474
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-B9
<400> 27474

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gaagaaggcc aaagcagcag catttcaagc tgaaaagaaa ggctacacag aaactttaaa 180
caaattatth gaaaagaaga aagaaacaga tgaatttaaa gaaatgaaaa aagacgagag 240
gttttagatta gcattagcag ttgaacaaga gagggctgcg aatgagaaat taaatatgca 300
gttaaggagt aaagagctag aattgaggca gcaagaagtt gaacaacata agaagaagga 360
agaagagaag attatgacac tagaccttag tgtcatgcct gctgatcaga agcaatatta 420
catgagacta cgatctaaga tatt 444

<210> 27475
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-035-Q1-K1-C11
<400> 27475

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ttcttcctga ggcgaagtta tttccgcaga aagatatagg agatttggca tttagagatc 180

caaggaaaag gaaagtagct gagtacaatg ccatctcata ttctgaccaa atgagattaa 240
gaacagcagt tgaactttta aaagccacga aggacattga atcacagttg gaaaagatct 300
cctctccatt gctgattctt cacggagccg cagacatggt aaccgatcct catgtcagca 360
aattccttta tgagaaagcc agcacgaagg acaagaccct caagctctat gaaggcagct 420
accattcaat c 431

<210> 27476
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C12

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acagaaggtc catgcaccgc cgtactcgtc accattcatg gggttccaca atcacccctt 180
ggcagttcca acaaattgggt acttaccata tactcagcca ggtcacttct accctgcttc 240
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cagaaataac attcatcctt actcgggtcc tgaatttggt tttctgcctt cacagccagt 360
tcacaagacc tcagtgaact tccatgcggt accagtgaca cactgaccc cgttgtgtag 420
ccgcggaatg ccagtggc 438

<210> 27477
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C2

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aggacttcaa gaccgatctc cgctttcagt cctccgccgt cgcgcgctg caggaggccg 180
gcgaggccta cctcgtgggg ctctttgagg aactaacct ctgcgccatt cacgccaaagc 240

gcgtcaccat catgcccaag gacattcagc tcgcgcgcgcg tattaggggc cagagggcct 300
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gacttgctgt tctcttgggt tactttttgg tggcatttgg cattttggta ccatagtgtc 420
ttgtcttagt atcttagggg 440

<210> 27478
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C4

<400> 27478

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ggacgcgtac tcgtatagtt gtgttcagtt ctgggtctat agagatatgt agccctgcat 120
tgtcgaaata aatactgtgt ccactcgttc gtgaaatgaa aaaaaaaaaa ataataaaa 180
aaaaattaaa aaatataaaa aaatttataa a 211

<210> 27479
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C5

<400> 27479

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ttattagatt ttaatttgta tttatgtttt tttattatct attttatttt ttattttatt 180
tttatatctt tttttattat tatttttagt atcatttttt ttttaattat attttttatt 240
tatttatctt ttttttctt tatatttttt tttatattat attattttatt atttttattt 300
tatttttatg ttatttttta tattatttat atatttttta atgattatat ttttatttat 360
tattatt 367

<210> 27480
<211> 453

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-035-Q1-K1-C6
 <400> 27480

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 gcagccgtcc atcaaccaat caaaggcttc accagtcaac tggacttgag ggcaggacct 180
 cgtcattccc aaaacctgga agaatcggcc aggatgaccc cactatgagg agttttgaac 240
 gccttactat cagcgagag aggaggagat gaatctttgg aggtgcaaaa ggtctgacca 300
 ttgacgagta tactgatttc attgaatatt cattcggttc cagatgatgc ttactgatga 360
 gcaagtcaaa agattatgta ctgtgcatga tgctgagctc ttcacattgc gatgctcgtc 420
 gaatcttggc acanatttga gttctgtaca ttc 453

<210> 27481
 <211> 429
 <212> DNA
 <213> Zea mays
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 <400> 27481

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 atgtagagat gattttctgc cacggcagaa tgctgctcagt gcatttcggt gtaggaatat 360
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 atagacaaa 429

<210> 27482
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<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C8

<400> 27482

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tccgtatgat cgtttagctt gctgctctga cgataacgac tttgcttctt tacagggaat 180
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acattgttgg gaggaggatg ggctcagcga agctgccatt caatcggaag aagagctggg 360
ccgggagcat ctcatgttct atttctgggt tctgctgtgc cgcgatgatg atgctctact 420
tctcaagcct gggttacatt gatgttatct gg 452

<210> 27483

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C9

<400> 27483

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atgtgcgggg ttgctacgtg tgcatactac cctattggcg catgaaggcc ttaccaagtg 180
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ccgaaccgga accttggttg ggaattggaa atcatgaaag gggaaggagt tgaccggacc 300
cttgcttgca cgtctccccg agtgtgtagg tagatggaca gttgggggtc caaagcacta 360
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<210> 27484

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B11

<400> 27484

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cagaactggt taatatgcta gaagctgatt gacagaacac ttgcaaagcg atgcatactg 180

actgacacta ctccgatact aagatacctg cttgatcaag gagactctat atacaaggca 240

cataccaacc tacaaaacga atctcattat gtaagccgtc gtctttgagc atgtcatcta 300

acattcactc tatcggcgcg tgtcctgctg gccttaatct atcaaactcc tgtatctgat 360

tttatacatt agaaatgctt tatacaaatg cctaatacaa ctcatgactc tgttgaacat 420

gtggcttgct acgctacctt tgctgcatgt ctcatcatgg 460

<210> 27485

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<212> DNA

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<223> Clone ID: LIB3067-034-Q1-K1-H3

<400> 27485

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gagactatc 129

<210> 27486

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H4

<400> 27486

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ccagtcgcct cgcgcctcgc cctccgggtc tccgcacacc ggccggtgac cctgcatcca 180

ccatgactgg tgtcagcact ggattgttga cgggcttgag gagggtcatg gaacagcaaa 240

ggatttcaac cgctttctgc agacaatcac gagtttcgag ctctactgtt tctttctctg 300

acctcgatga gaaggggtgac atggaatatg atgataactc tccaaattca aagagggagt 360

tacgacccca aggtgtagat cccaataagg gctgggaatt ccgtggtgtg caca 414

<210> 27487

<211> 295

<212> DNA

<213> Zea mays

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<400> 27487

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cgatcgaccg agagctagca cgcgatggcg aggtcttcca agatgatggt ggcggcagct 180

ctgctggcct tggccctggc cgtgtcgacc gccgaggcga ggaacatcaa gaccacgacg 240

acggagaaga aggacgacgc ggtggtgcag ccgcagacct tcccgcctt cgacc 295

<210> 27488

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H8

<400> 27488

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gtgatggcgt cgtagcccc agccgctaga ctgggtgggc atcgagaacc aaacggttaa 120

cgatggcggc atatctcaaa ttattgtctt atttagttag gtctgatttg cgtctatgag 180

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<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H9

<400> 27489

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 gcggctgatc ttcgccggca agcagctgga ggatggtcgc accttggctg actacaacat 180
 ccagaaggag agcaccctcc acttggtgct ccgcctcagg ggtggcatgc agatctttgt 240
 gaagacattg actggcaaga ccatcacctt ggaggtggag tcgtctgaca caatc 295

<210> 27490
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A1

<400> 27490

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 gaaatggacc gagagagagg gcgaagatgg gcaaaaggaa ggtggcttcc agcgtattta 180
 cttgcatgag gagggcgtac aaggcaacag gggttctata ttgtcattac caggcgggga 240
 tgttcctact ggtggtgagt tcatccaggc tgcagctctt gtgagccaac cagctcttta 300
 ctctaaggaa ctgctggagc aacgtgctgc tggtcctgcg atgatgcac catctgaagc 360
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 tgggtggca 428

<210> 27491
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A10

<400> 27491

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 catatgtatt gtggcatgta tggacttctg cttattttta gaaaataatg ctcgcttgac 180
 tgaatagata aataatactc actccatttt ttatatatttg tgtgttttag ttcaaaaatg 240
 gactggtcgg acgattaata ttccagaaca gagatgatat atctgacca tacatacttt 300

gatgtaacaa cttggtttta tgcttcttgc gctgatatgg cagcttgact tcacaccatt 360
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<210> 27492
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-A11
 <400> 27492

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 tccccacgga ttatatcccc accgtatttg acaacttcag cgccaatgtc tccgtgggtg 180
 ggagcatcgt taacttgggc ctctgggaca cggcaggcca ggaggattac agcaggttga 240
 ggcctctcag ctacaggggt gccgatgtgt tcctcctctc cttctccctg gtcagcaagg 300
 cgagctatga gaacgtcctc aagaagtgga tgccagagct tcgccgattt tcacctactg 360
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 accattct 428

<210> 27493
 <211> 89
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-A2
 <400> 27493

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 tggcagtcgt acaatgacca tgaggggtc 89

<210> 27494
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-A3

<400> 27494

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ggcgagcacg cgacccgaca acgctcgcgc ggaggccgaa atgcccgtg ctgctcctct 120

tcccagtagc tagcagcggg acatcgtcgt gggtcgtccg ccgttgccat cgtgtgacgg 180

cgtgaaggga tcggatcgaa ggaggccgca agccaagcaa ggatcaagaa atggcgtcgc 240

gcggccacct gctgtacta gcgctgctcg tgctggccgc ggcggcagcg gcagcgtcgg 300

gcggcggggc acagcaccag cagcggcagc gcggcgggag gaagccgaag ccggc 355

<210> 27495

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A4

<400> 27495

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gggctgcaac agagtacttt aaaagggatc ctcaatcatg actttccctg tgtattgctg 120

atatattggc actagatatt ttaggaaact ctatttacag cacagtgatt tgcacc 176

<210> 27496

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A6

<400> 27496

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gtacgagtta atactataat aaggaagatc ttataaagat acttaaatga gagttgactg 120

tccttgaggt tccaacatta cgactgcaaa tacctgaacg ataccgatct taacaggtat 180

gctaaattta ataatgtggc cagcttatta aaacgtgaag aagggaaaac ctttgggttt 240

tccaaa 246

<210> 27497

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A8

<400> 27497

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tgccctcaag ggagcttttg atggtggcct ggatattcct cacagcgaga agaggtttgc 180
tggtttcaag aaggatgaca agcagctgga tgctgatatc catcgcaagt acatctatgg 240
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gaaggccat gctgccatcc gtgctgatcc ttctgtggtc aagtcaacca agcagccacc 420
aaaggagcac aagaggtaca accccaagaa act 453

<210> 27498

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A9

<400> 27498

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gttcccgggc gtgaacacgc tgggcgtctc catggcgcg c atcgactacg cgccggggcg 180
ccagaacceg ccgcacacgc acccgcgcg caccgagatc atcttcgtcc tcgacggcac 240
gctcgaggtc ggcttcatca ccaccgcca cgcgctcttc accaagaccg tcaccaaggg 300
cgacgtcttc gtcttccgc ggggcctcgt ccacttccag cagaacaggg ggcacggccc 360
cgccgtcgtc gtcgccgct tcaacagcca gtcacgggc acgcatgcca tcgccatgac 420
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<210> 27499

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations
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<400> 27499

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gcaagtgcac aggaattaca ttatcggagg agcaactgaa atatgggaag agaaagggtga 180
aagaatttgg attagaggac cgcataactc tcctgctttg tgattaccgt caaataccga 240
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tctacgaaga tttctttgcc tcctgcgagt atcatttggc cgaacacggt ctacttgtcc 360
tncagtccat cgcggtccca aaggaaactgt acgacaaaat gaggacgaaa cctgactttc 420
tgaaggaata tatc 434

<210> 27500
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H2

<400> 27500

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aggactccaa ggccgtcgtc gtcctcgtcg ccgacgtctt cggattcgaa gcgccgatta 180
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ttcatgggga tccttatgca cctgagaatg ttgagaagcc ctttcctgtg tggataaagt 300
cacatactcc ggaaaaaggg tttgaagaga caaaacatgt tattgggggt ctaaaagaga 360
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<211> 442
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<223> unsure at all n locations
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tagaagcaga tagacagaac aatgggaaag catgcatact gactgacact actcggatac 180

taagagacct gcttgttcaa gtagactctc ttcgaaagga acatagcgac ctacaaaacg 240

aatctcatta tgtaagcctt tttcttttag tatgtcaact aagatttggg ctattggcag 300

ttgtgctgtt gccctttatc tagcaaactt tgttatctga ttttatccat tggaaatgct 360

ttatacaaat gcctaaacca actcatcact ttgntgaata tttggcttgt cacgctacct 420

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<210> 27502

<211> 378

<212> DNA

<213> Zea mays

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tggtctaacag tcgtgcgaag gccattgatg atgctgaagg ggtagttaag gtgatcgcg 240

agaaggaaac cgataagatt ctaggtgtgc acataatggc acccaatgct ggtgaaatca 300

tccatgaagc tgtcatcgcc ttgcagtatg gagcattcag tgaggatgtt gctcgaacat 360

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<223> Clone ID: LIB3067-034-Q1-K1-F5

<400> 27503

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 gacgttcgct tgaggaaatt gagatgtcct tgagcagtc taccctggc aagcaagagt 240
 agaacatctc aattgtatgg acaaactgaa caactgacgg gaggaattta ataagagcag 300
 agggggccta atcccatgaa tcttcagcag cagcagtttg ttgcaaaca catcaactcc 360
 tatagataat gagcacaatc aaattcagct tttctttggt agcatgagaa ttgttgtaca 420
 atattaaaaa gggttgagaa aatggccctt taaattt 457

<210> 27504
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F7

<400> 27504

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 gttcttggtg ttttgttttg gtggtcgagc atcgcatgtt ctgcttctgg atccagatct 300
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<210> 27505
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F8

<400> 27505

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 tgtacccatg tgcagcagca gcttaaatga accatggctt actgaccacc gcggaggcgg 180
 agcaccatgt ggagagtgct cttcttctgg atg 213

<210> 27506
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 27506

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 agtgttcgtt tgtggagcac cggaactaca aggtcgttta caggcgctac gcctnccttt 300
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<210> 27507
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-G1

 <400> 27507

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 tgtatggact ggtttagctg gctccccctg gcttccatcg acccgcttcg cgcttcatgt 240
 ttactacttg cgatactggt gttacttgtg attgatgatg ataaaagcca cggcctgtgt 300
 tactactgct gtaacaagtc cgacagaaga accattcaat gcatgccac gaagggga 358

<210> 27508
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-G12

 <400> 27508

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gagcaatgga ttgactttgc tgcaacagag attgatgcaa acattggaaa gtggttgtag 420
cca 423

<210> 27509
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-G4
<400> 27509

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<210> 27510
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-G5
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gacatatatt cagtgatgga acacaaggag gccggctgcc agcagccgga gggcccaatc 120
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<210> 27511
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-G6

<400> 27511

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ccagaacctg ctcgaccagt cctagctacc atatctgtat ctgtactgta catcagcatc 120
gcttcactct gtatagatat acatacatat atatgttagc tagtagcatc gaacacttgt 180
cccggtggtt ggcggacgga gatagtgttt cctgcgtgc tgctctgtgt aaactgaaaa 240
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<210> 27512
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-G7

<400> 27512

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gagcaacctt aagccgggtga cgctggagct cgggtggcaag tcccccttca tcgtcatgga 180
cgacgccgac gtcgaccagg ccgtcgagct cgcgcaccag gcggtcttct tcaaccaggg 240
ccaatgctgc tgcgcgggtt cgcggacgtt cgtgcacgag cgcgtgtacg acgagttcgt 300
ggagaagtcc aaggcccgcg cctgaagcg cgtcgtcggc gacccccctca aggacggggg 360
cgaacagggg cctcagatcg acggcgagca attcaacaag atc 403

<210> 27513
<211> 434

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-G8

 <400> 27513

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 ccatgactcc tttaacataa ttaaaatccc ccaaaacatt gcaaatttag tctggagggt 180
 tgttgtttgt taaaccgctt tccggtttta agttctgacc caatgacttg ctgttaatta 240
 tattttttcc ctcaatttta acattacagc ttgaactgca gtgtgccagg aatccctgtt 300
 gaattgtttt tatagggata atctgaaata taacctagca tatgcaaatt gtttctgtag 360
 ttccttctgg aattcattct caggcaaaaa aatattttgg cattattgca tctaccaata 420
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<210> 27514
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-034-Q1-K1-G9

 <400> 27514

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 cgccagacct ccaccaaggg gatggacccc aagttcctga ggaacctgag gtattctagg 180
 aagggcaaca aaaagagtgg tgaggctgaa gctgaggagt aggaaggaaa gcatggcttt 240
 gtttctctg ttcttagctc agttccacct ttaggacctg nggttttggt aaagatggaa 300
 cttaagttgg tgttactgta tgatggcaag gaccttttgc t 341

<210> 27515
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-H1

<400> 27515

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tttccttgcg ccaggatcag agttgtggat gtttaatgat gtccctgagg ttgacagaga 180

aagaaagcta attgatggag gtttggactt cagtcgcctc gataatatta ctttggtgca 240

tcgtgagggg aatgctgtta ttcgccgtca cttggagagc cttccttttag aatcattcga 300

ttctatcctg attttggcag atgaatctgt agaagattca gcaatccaag ctgac 355

<210> 27516

<211> 86

<212> DNA

<213> Zea mays

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<400> 27516

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gcagcgaacg acatgatgac gtgtgt 86

<210> 27517

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H11

<400> 27517

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cggcgacgtc ggcgtgctca tcttcaactc cagcctgtc agccccacgc cgtccttcac 120

gtcgtcatc gccaacgct acgggatgcg gcgcgacgtc gtcagccaca acctcagcgg 180

aatgggatgc agcgccggca tcatcgccat cgacctcgcc aagcgctgc tccaggtgca 240

cccgacacg tacgcgtgg tggtagcac ggagaacatc actctcaacg cctacatggg 300

caacaaaccg ccccatgctg gtcaccaaca cgctttttcc gcgtcgg 347

<210> 27518

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F2

<400> 27518

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cctcttggca gagtttgaca agattaacaa aaagcttggc ttctggaagg aggatcttcc 120

caagatcgag gaagagcttg aattggaaat tgccaaaagt gagctgactg aacttaagaa 180

ggaatgcgtt gaagcaatgg agactcaact caagagggag gagtttcaag atgaggagat 240

gcctgatgtc aggaaattgg acatcagaaa ctctctgtag gcctgatcga cgataatctt 300

tgaggcccaa cgcacctctg gttttggttt caagttgatc ggtgctccac acctatgaat 360

gctgcttctt cccttttttg 379

<210> 27519

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-034-Q1-K1-D3

<400> 27519

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cttcggggcc acccgcacca cgcgcgcctg gccgccatgg gcaaccggg ctacggctgc 180

ggcggcatgc tgtgcctcga catgggcacc gaggagcgcg ccaaccgtct catgcaccac 240

ctncagaaca ccaccagtt cggcctcatg gccgtcagcc tcggctacta cgagacgctc 300

atgtcctgct ccggcagcag caccagcagc gagatgcccg ccgaggaccg cgcgcgcgcg 360

ggca 364

<210> 27520

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D4

<400> 27520

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tgaatctgca gatggcccggt ctgccgacga cgactcggtcc gatgatgccg cggacaaagc 120
tgccgcccgcg ccgtcggtacc tgtccgctcg atgggtgacc gccgcagtga cgaccgcccgt 180
cgcgctggcg ctggcgggct aagggtgtgcg ctcatatgct atgttttttt tataacttat 240
tggaacccct atcttctttt cttttgtcca agtcgtgtcc cttccttggt ggtgaacaaa 300
ataagaaggg ctatttttgg ttttttatat ttattaccgc attccattaa aaaaaattgg 360
aggtgtgtgt gagtgatgta agtctggatt ttggtcaatg ggttgggggtg atcattttg 419

<210> 27521
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D5

<400> 27521

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aagcttatgg aaaaacgggg atacggagag gagtatataa atcgctataa aatgatgaca 120
aggttccatc atcaacgggt tccactagta attttggtgt gtggaactgc ctgtactgga 180
aaatcaacaa tcgctacaca acttgctcag aggctcaatt tgcctaattgt tttgcagacg 240
gacatggtgt atgagctgct gcggacatca acagatgcgc cacttacttc agttcctgtg 300
tgggctcgcg attttaattc acctgaagag cttatcactg aattc 345

<210> 27522
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D6

<400> 27522

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aaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat 120
aaaaaaaaa ataataaaaa aaaaggcctt cttttttaa gtttccaatt ttacttacc 180
ttgcatttta actaatacct tttatttagg gtcacttaat ttaatttaatt tgtccttctt 240

ttttaaactt ttttaattgga aaaaccttgt ttttaccaaa ttaattcact ttgtaaaaaa 300
 ttcttttt 308

<210> 27523
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D7

<400> 27523

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 aacgaaagag aagtatgaag aaattcgtga acgtattata gaggaacctt ttgtatgcaa 120
 aagagctcgt gaatggagac ctgatgtaac atgcaatgac ccagaagata tatctcagga 180
 tggtagcagg ctttgggcta ttgacaaacc caatattgca caaccccctc gcggatggga 240
 aaggcagatt aggataagag gtgaaggggg taccaaattt gctgatgtat actatacctc 300
 tcctactgga aggaaactta ggtctctggt tgaagtcgat aggttc 346

<210> 27524
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D8

<400> 27524

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 gatttgaaga gtatatgtgg acataacttaa agttggattt gggtcttgca ccaaaggagg 180
 tattatttat tctgttgcca tatctttaat caagaaagat agttttctgc aagctcttgg 240
 tattcttcgg caactaaaga gtttggatct taaattaagc aaggggagcct tgtcaactat 300
 agaagaagaa tttacaagg aaagcaaatt ggggatatga tgaatttggt ggaaagagtg 360
 gagatgtttc cctgagttgc gtcttcgcaa caaaaatctt gtgtctgtgt gtacaaatct 420
 tggcactgat 430

<210> 27525
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-E1

 <400> 27525

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 actacaccaa cgaattcgac ttctgccgct atgagcagca agcttctgaa gaatcctgcc 180
 ccatttccga gtagatcttg agagctctac ttgcagggat ctttgcaaata acagaaagaa 240
 aggatcgaca acctagttca tga 263

<210> 27526
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-E10

 <400> 27526

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 g 61

<210> 27527
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-034-Q1-K1-E11

 <400> 27527

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 tacacttcgg taccaactga tggatctcct ttgatcatatc acaagtcctt tgatcacagt 120
 cacacagaag tgagaactaa gttcacagct aagactctta gcgatacaag agatgcattt 180
 gtcgccacaa actcaatcac catcatctta ctccctggac tcagcctcgc cactcttctt 240
 gttgcccttc cttgagtacc gaagtgtatt ttatgtcttg ttgggttacct ggaatttaata 300

taagaccatc acttgtatc

319

<210> 27528

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E6

<400> 27528

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aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120

aataaaaagg ggcggccctt ttccatttta aaaaatgggg gctttttttt aaccaaaaag 180

gggggggtga aatttttttt aattttaaaa ccctttggga aaacattctg gttctttttt 240

ggaccatttt ttttttcctt ttaaaaattc tatttttttt ttggggcctt aaccttgggt 300

tcctttttgt tttccccctt ttttaaaact ttttttttgg cctccccctt ttaaaaatcc 360

ctttttt 367

<210> 27529

<211> 186

<212> DNA

<213> Zea mays

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<400> 27529

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gtagctacat tccccctccc accacctcca cacatcaact tctgcttcac ctttttttagc 120

atcaatggat ggccggttgt ttttaatgcg atgatctgca gttatcgtgg cagaagctct 180

ttgtgc 186

<210> 27530

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E9

<400> 27530

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cgaggcactg gagccagttg cgaggtcaca gtgaatcatt gttcttttagc actagcagcg 120
tgaaaactga tgtaaaagat atcagtggac cctgttgtat ttgactaatg cttttgcaca 180
gcaacataac ttcagagggtg gaatgtctat ccctttctct atgggatgct tgtagctata 240
caatcatcga gctcttaaat tacatgatct aacgcagct catcgagctc ttaaattaaa 300
aaacaagaag atccaaccaa gcaacaatgt tggatgtag ccgaaaaaat agaataatta 360
aaa 363

<210> 27531
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F1

<400> 27531

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gtggaagttt ccaactggtg attgcatcca ctaggtgcaa tccaattttt gcgatggtga 120
cgaaaccaag tagaagatgg caccctaaca agttatatta tttccttttc ttatcctgct 180
tagatccaag gatgtgatgg tctgaaccct aacgggtctcc tgctatcttg atttgacgct 240
tgggagacgc ttgattccgt gcctgtgggt tgtaaagcgt taaaacttga ctttgctagt 300
gtactcccaa tgatataacc caatcctggg taaacaaacg catggggatg aaatttggac 360
gaaaccctgg acaactgatg tg 382

<210> 27532
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F10

<400> 27532

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caagggcggc aaggggctcg ggaagggcgg cgcgaaagct caccggaagg tgctgcgcga 120
caacatccag gggatcacga agccggcgat ccggaggctg gcgaggaggg gtggcgtaga 180

gcgcacatctcc gggctgatct acgaggagac ccgcggcgtg ctcaagatct ttctcgagaa 240
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 ggacgtcgtg tacgccctca aacgccaggg ccgcactctc tatggcttcg gcggctaggt 360
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<210> 27533
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-034-Q1-K1-F11
 <400> 27533

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 attataccaa tcaatactga tggagcccaa aaggtagggc agaagcgtgc caggttgctt 120
 aatgatgacg acgaccatgt taaaaagaag attcggctgg gtgctcctgc aacacagtgg 180
 atttcagtat acaattcaag gcaacctatg aagcagaggt accactataa tgtggctgat 240
 gcaaggttag cgcaacatgt ggagaaagga aatgaggatg gtttgttgat aagttcaata 300
 tcatcatgcy caaatctttg ggcaatcatt atggatgcag gaactggctt ctcagctcaa 360
 gtttatgagc tatcttcaca ctttcttcat aaggagtgga tcatggaaca attggataaa 420
 agtt 424

<210> 27534
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-034-Q1-K1-F12
 <400> 27534

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 gcggctgcca gccaaacgtc tgctgcagca agttcggcta ctgcggcacg accgacgagt 180
 actgtggcga cgggtgccag tcgggcccgt gccgctcggg cggcgggcggc ggcggcagtg 240
 gtggcggtgg tgccaacgtg gctagcgtcg tcaccagctc cttcttcaac ggcatcaaga 300

accaggccgg gagcgggtgc gagggcaaga acttctacac ccggagcgcg ttcctgagcg 360
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<210> 27535
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-D2

<400> 27535

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gcacgtccgc cagcaagcgc caggaggcca tcgagaacct cggcgcgggac gagttcctca 180
tcagccggga cgagaaccag atgaaggcgg cgacggggac catggacggc atcatcgaca 240
cgggtgctggc gtggcaccgc atcacgccgc tgctggcgct gctgaagccg ctggggcaga 300
tggtgatcgt gggcgcgccg agcaagccgc tcgagctgnc ggcctacgcc atcgtgccgg 360
gcgggaaggg cgtggctggg aacaatgten gcagcgtcag 400

<210> 27536
<211> 468
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-B8

<400> 27536

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cttcanngtg ttggaccatt ctactnnnga tacaacgtga gcgagcattt gctgattggg 120
gcgctatgca aggggcatcn naaatgatat atgttcatca tagtatttta gtaacccatn 180
tngagtaatt caatttctgt tgtcacgtnn catgtatgtg actgannagt gtaaatttct 240
tccttagctg ggctcagagt gaagnnnttt gttgggaatg taaaaattag ttttaatcga 300
catactgtgg atttgggttt caattccaat ccaaaccctg gtagtgtgcc ttcaaattta 360
gtgctgtact attaagttta aagttattat taatgtgaat attaaatata aattttctga 420

taaattgttg cctctgttga tacacttattc aaatagttaa aatggata 468

<210> 27537
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-B9

<400> 27537

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acgattcaca agaggtgtcg agatgtctca gaacaacccc tcccagctcc tcccctcaga 180
gctgatcgat cgggtgcatcg ggtccaagat ctgggtgatc atgaaggggg acaaggagct 240
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gtatgaatac actgctgaaa ggcgccgcat tacaaaaactt gaccagat 348

<210> 27538
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C10

<400> 27538

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ttttgttcag gatcaccctg cagtgcagagc tgcaaaaatcc agtgtattga gaaacacacc 180
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atgctcaagc ccgcttcggc agtttaagc 389

<210> 27539
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C11

<400> 27539

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aattttcgac aaggttgatg tcaatggtga caatactgca cccatttaca agttcctgaa 180
gtccagcaaa ggtagtctct ttggcgataa cataaaatgg aacttctcca aattcttggt 240
tgacaaagag gggcatgttg tggagcggta tgcaccaaca acttccccac tgagcatcga 300
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<210> 27540

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C12

<400> 27540

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gaggagctga tgaaggctca gttggaaaca acaacaaaag taaaacagct tagagaggtt 180
catggagcct ggttgccacc atggtttagcg acacatgcag cccgctctat ggaggtgatg 240
tcaaatcact ggaatgaaca tgggaaacct gcctttgaca gcttcttgca gaaggcatct 300
gaaaaaacag tgcagacaaa gaaatgggct ggcctcatc tggaaactgc taagacaaaa 360
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<210> 27541

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C4

<400> 27541

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aaattgtcaa gcgaggtttg gatcatctag gagcttttgg atgatgatga tgggtgctgga 180
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ttgagctctg cttaagattc tcacagttaa attgttttat gtaatttggg ccttgagatg 300
tttttgaacc aaacagctaa aagagttcag ttgagttaac tgggtgccat tattacatta 360
tgagattcct tg 372

<210> 27542
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C5

<400> 27542

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gtccgtagag cagagcagat cagagagcgg ggaggaagaa aaaccgatcg atggcgcca 120
actacgtgga cacaacgggc gaggaggac ggttccacgg ccctcacagc cacagcacca 180
gcacgacccc gacgggcggc gcggcgggcg cgccatcgcc gcgcaacttc cggcgcagct 240
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<210> 27543
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 27543

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aagcgagcaa gtggagatgc tgatgaagat gatcaaagtg cagacactga taatgaagaa 180
gagaatgatg atgagcatcc catcacgcat gccaataagg ggaccctact cacgcgtaaa 240
agattgcggt acatgccggc ggatatggag gatgtaggtt tcggcaactc ttccagctca 300
catgactgta gctggagatc tgatccncat agcattgcag tggacatcaa caaagcttct 360
ccagatggaa ctaacttggc tttcngttca aaaagacttg gctacacagt ctgcnagat 420

tgagaaacag cgcatggaa

439

<210> 27544
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C7

<400> 27544

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atatctagtt cgtgtcatga tacggattcc ggagttcctg aatgccggtg aagagttgtg 120
gggttgtgac atggaggtgt tcacgaagca gtagagccta gagtagagga ggaactgagg 180
aaggtagcagg gacaaagtag ctatccaaga ggttgctgcc tgatgggtgac gtgaacagtg 240
aactgcagcg atcgaaaatg ttggccgttc gaacaccaca agtttttttt ttttgcttga 300
tcaaaaatgt ttccttcttg attggatgcg aatacgtgat tctgtgctgct acaagcgtca 360
tcggaggccc at 372

<210> 27545
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C8

<400> 27545

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tgtatgtagc tgtgtaataa agttcagggg atgtaaattg acactcctac caagtatgct 180
gatgtatggt ctcatgcgtg tcgggggttc ttatacatgg tttgtgttag atttagtatg 240
aagatgacct ctattttatt tgatacaaatt cgaataaatt gtaggtttat attaaaaaat 300
aataa 305

<210> 27546
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C9

<400> 27546

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aaaattggaa tcgacatatt tggctcttgg tttttgactt ctatggtatt catatttctg 180
gttggaatat ttgtttcttc atgggttgggt tcaaccatct tctgggtggg cgagtgggtt 240
ataaagaaaa tgccatttgt aagacatata tattcagcat caaagcaagt cagcactgca 300
atttcaccag atcaaaatac gactgctttc aaagaagttg caataattcg tca 353

<210> 27547

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D1

<400> 27547

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tgatttcgat cgtccactcc acgcacagca agttctttac ggaccttgcc gcatatgata 120
tgtacatggt gacaagataa ggtacaggag aattgatgaa agaagcggtg cgggccagtc 180
gtcgttgcac gagaacaaac acataaatta aaacattatt acaggagtag ggtatttatt 240
gtattgttca ggccagaaaa atatgtggaa agtgggtctt taacttaatt cggaagaagc 300
atatagcact cc 312

<210> 27548

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D10

<400> 27548

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cgacatggcg gccaccagca gcaagcagcc ggcagccgcc agaccggtgc agggcgagc 120
cgccgcactg ctcgtgatcg ccgacgtcgc ggtgtccgtg ctcgacatga gcaccgagca 180

ggtgagcgac atgaacaacg agcagggtcaa gacgagccac cccgcggccg ccacgacgac 240
ggacccctcc gacgcgccgg cgcaggcgta ccgcaactcg ctgtccgggg ccgacaacaa 300
gtgccggatc ggctacaaca ac 322

<210> 27549
<211> 357
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-D11
<400> 27549

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atagtagcat tgggtgcatat gggcaatcaa agcttgcaaa catattgcat gctaataaac 180
ttgccaggcg atttgaggaa gataatgtca acataactgc aaattctctt catcctggtt 240
ccattatcac gaaccttctt cgctaccaca gtatcctaga tgttctccat cggacgctgg 300
gtaaattggt gctgaaaaat gctgagcaag gtgcggcaac tacatgctat ttggcac 357

<210> 27550
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-D12
<400> 27550

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gcggcgctcg cctcgtaag gcgttccaga gcgcctactt cgacaggtac ggccggcgcg 180
ccaactcgct cgctccggc tactcccgcg gcaccggcct cggcgccgag atcatcggca 240
ccttcgtgct cgtctacacc gtcttctccg ccaccgaccc caagcgcaac gcccgcgact 300
cccacgtccc ggttctggct cccctcccca tcggttccgc cgtgttcatg gtgcacctgg 360
ccaccatccc cg 372

<210> 27551
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-034-Q1-K1-B3

 <400> 27551

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 gcggcgagca ttgcaagcca agctgcaggg gtccggagcg gagaccggag gagggagacg 120
 tcgcttgcca tgtcaccggc agcatccgcc gccgaaacca tcgtcgtcgc aatcgcaagc 180
 gtcccagacc agcagcagag cagccaccgc gcccgggcgc cgtccgtccc gtcgtcctac 240
 gccgtctggg agaaggagcg gtaaggcgtc tgcagcttta cgacgtcgtc gtcgtcgtcg 300
 tctgccacct acctactgct gctgctgctg caaggggaag t 341

<210> 27552
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-H5

 <400> 27552

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 gaagcgggtg cggcgggcga tctggcggcg ggccgacgag cggtcgttgc cccgtggact 180
 cgctgaagct gggcgtgtgc tccaacttgc tgaacaggct gatcaacgcg accctgggga 240
 ctccgtccag gacgccgtgc tgcacgtgta tccaggggct ggcggaacct taggcggcgg 300
 tgtgcctatg caccgtcttc agggccaacg tccagagcat caacctcaac ctgcccatac 360
 acctcagcct tctcgtaaac tactgctgca ggcgcttacc cctcggttta cagtgtttct 420
 gactatt 427

<210> 27553
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H6

<400> 27553

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ataaaaaatgc cgcgaggcca ccacgcgaga cgaacgcaaa cgaagtgcgg aaaataggcc 120
tcttttttct tcttctcgta gagatatttc ggaagaggga gtgcgtgcct tcctctcagc 180
tgattcgccg aggacacgag atcctctaga gggttgtgct gtttggcgtg aggccttagg 240
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gtcccagatc ggtgaggcag cggggctatt gtccggcggc aaggaagaaa cgaaggcgtc 360
ggctgggatg gtggagtgcc gcatttgcca agaggaggac ctcgcaaaga acctcgagag 420
cccc 424

<210> 27554

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H7

<400> 27554

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ggcctcgcct gtgccactga cgaccactcc ctccacaacg ccttcagcac ctactgagag 180
gtcctcgagt ccacgattat tctcgatcgg gagactcata ggtcccgcga cttcggcttc 240
gtcaccttct cactgagga ggcgatacag aacgccatcg aaggcatgaa cggcaaggag 300
ctggacggtc gcaacatcac cgtcaacgag gccagtcgcc gcggcggacg cggaagctgc 360
ggctgc 366

<210> 27555

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H9

<400> 27555

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atggtgcaag aagctgattg tccagaagag gagggctgcg ctcaagtact ttgacaggtt 120
caaggctcatg ctgtcaagga tcaagagggg tgggtgctatc aggcacgagc tcgccaagct 180
gaagaaggcg ttcacggctt aagtccattt tgggtgatga catgtcagct tctggtttca 240
tgttggatca gcaatctgtt ttgagtgttg tcaaagccag aatcagtaat atgttctctg 300
cgtaccggtt ctaaacttca tcaagaatga ctgtgctctg gatatttcgt cgggacatga 360
tatggaacac ttaaaagttc gctgtcaaaa 390

<210> 27556
<211> 238
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-A1

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cgcgatctcg gttacgttta catgagtctt gctgcctaac atacatctgt gttctttttc 120
taggctgaga gaaactnaac tgatcgagtc tgtctggcag gcatcgatct atccagtcgt 180
cagttcgtca catccgcttt ttcgtatata tcatcttcag atnttgttca tctgtcaa 238

<210> 27557
<211> 347
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-A10

<400> 27557
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gancngcngc cagaagangg gangncaaca annacagcaa gaaggcgaac gngggnacca 120
caacngganc aacagcctat gaggaannnn ctggcttttc acaacacaca ctgcagtcac 180
ttacagtgga gagattgcgt gcacttctac gacaaagtgg tcgatcgacc aaaggcaaaa 240
aggatgaact gattgctcgc ttacgggagt cgcagggttg acatgaatct ggtacttgtt 300

tagtcaatca aacccttca ggctaggggtt acacgaccaa atgagta 347

<210> 27558

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A11

<400> 27558

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actgacaata gattattgac cgcagccaaa tctattgtgt ctctggccaa ataaatattt 120

aatcacaaag aattctataa ctacaaaagt ctaaagctgt ttgtttacg 169

<210> 27559

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A2

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aaaaggagct ccagtccttg agtgcccgat acctggagaa agttggaaag aagtcaaaca 120

tgacaatact gttacatggt tggccttttg gaacgatcca attaacccaa aggatttcaa 180

gtatgttttc ctggcagcaa gcagctcact gaaggggcaa agtgacaaag agaagtatga 240

gaagtccaga aaattgaagg gtcatatata aagaattcgt gagaattata caaaagattt 300

caaaaacaaa gatgtgacga ggaggcaaat agctgtggca acatacctta 350

<210> 27560

<211> 297

<212> DNA

<213> Zea mays

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<400> 27560

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tggtcagtag gtagtaccat ggcaaaaagt ggcaactctgc tggccctaac ctctctttt 120

cgcttcgcga cgcatgcggc tgcaggtgcg gcggatcctg ccctagtcca ggcgggggtgg 180
 cgggtggcggg ggagatctgg ggtggtggtg gtggaagcgg ggggtggagt ggaggggggt 240
 cgggtgggga gtggggcggg gatctggtgg agcggcagag cggtggggcg gggatct 297

<210> 27561

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A4

<400> 27561

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 cgagcatcgc ggataccgag cgggacgtga aggcggagga tacggagacc gacgacgccg 120
 tgacggccgg cgtcgatacc gccgctcagg ccgacgttac gccggcggac gcggttacgg 180
 ccatcatgca atcggatgcc aaggtctcaa ccga 214

<210> 27562

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A7

<400> 27562

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 caaccgtggc ggcggctacg gcaactccga cgggaactgg aggaactgag cgggtggggcc 180
 cgcgcggcca agttatcctg ttcgctaccg tgatgtttac cctagtccag agggttttatc 240
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 agttgttagt gctgtgttca tcctcggctc cagcagacc atgcatcaac cagcatggac 360
 tgtggatcga tggatgct 378

<210> 27563

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A8

<400> 27563

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ctcagatttc aaaagtagtc agtgctggat gaagaatggc ctcgcaatgc aagactcgat 180
ggtacgaagg aaaacgatgc gcttggattc cgtgaaggaa cgatttcttt gtcagcacct 240
cagaatttgg ccacttgaaa gaatctgatg cttgaagttt cctggttctg tgtacacaag 300
tcggctcaat gtcagaattg agccgcttga aatataattt gttatattct atgcggagag 360
taagtcttgg aaacagcctt ttccacaata atgtacagtt attatgcaa tttctga 417

<210> 27564

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-034-Q1-K1-A9

<400> 27564

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ccatgactac ctgaaaagcc tttgccctga tctccatatt accagagggtg aacatgatga 240
ggatgctcga tacccaaaga ctaagacact tacaattggc cagtttaagc ttgggctgtg 300
ccatggccat caggttggtc catggggcga cctggactcc ctggcgatgc tccagcggca 360
gctggacgtg gacatcctgg tgaccgggca cagcaccag ttc 403

<210> 27565

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-B1

<400> 27565

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ggaaagcccg ctgttcacat ggctagcgtt gacttgaaag gaaaagcata cgatgtgttg 240
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tttgaaggac caggtgccga ttcaaagcct atttgattgt gcgttgagga tcaagactat 360
atgggcatga ataaaaa 377

<210> 27566
<211> 166
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-B10
<400> 27566

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tgatgctgcg agatgcatgt gtgtcttttg tttcacgttg cattgcatag gcaagtcgag 120
atgatgagtt ggcgttgtac actaagatga accatgtttg tgcaat 166

<210> 27567
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-B12
<400> 27567

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ccggtggtgc cggaggagac ggacagcagc accaggacga gggcgctgct ggagaacgac 360
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<210> 27568
 <211> 354
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-034-Q1-K1-B2

<400> 27568

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tccccgcgcc cagagacaag cccggagacc atggcggacc agctcactga cgaccaaadc 180
gccgagttca aggaggcctt cagcctcttc gataaggacg gcgacggttg catcacaacc 240
aaggagcttg gaactgtcat gcgttcactg ggtcagaacc caacggaggc tgaactccag 300
gacatgatca atgaggtgga tgccgacggc aatggcacga tcgacttncc cgag 354
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<210> 27569
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F7

<400> 27569

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 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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cgcgcgcgag agttaccatt gtacttgtgt agcttggcag ttggntgact gtgtgacaaa 360
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<210> 27571

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F9

<400> 27571

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ttgagtacta aagaagaact ggaagcacag ctgtgttcag caaccactga aatggggaaa 180
ctgcgtgaca tgggtcaaagc actagagaat gaggtcaaaa cggagaaggc actgcatgaa 240
gaactaacag cacatataca gataaagggt gaagcagctg ttgatgcagt taaagaacca 300
ttggaagcac aactgtgttc aacaaatact gaagcagaga agctaagaga tgttgtcaaa 360
gcacttgagg atcaagtaga aaaagagaag gcattgtgcg aagagcttgc agcaaaggta 420
gagttgaaaa c 431

<210> 27572

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-033-Q1-K1-G11

<400> 27572

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 aagtgagata gagccattct ttgcaaagca taaagtatta ttgccgctta gggctttcag 180
 ctgtctgtac acttcataaa tcgagcagtt gcaaaaaaag ctcgaaattg tgattgttga 240
 tgaagttagg ggcaggggga gagacatcga ggggaggcac tactagattg tgtgttttgt 300
 gtcgagtcgt ttcacgatat acggcctcag aatagaagtt ccctttgaaa tgaagtaacg 360
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<210> 27573

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G12

<400> 27573

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 agggccagga ttgtcaatgc tggtagcgag tgcctcacat ttgaccagct tgctcttcgt 180
 gctocacttg gcgagaacac tgctctcttg aggggccccca agaatgcccg tgaggcagtg 240
 aggcactttg gcaaggctcc tggagtgccg cacagccaca ccaagccgta tgtgcgctcc 300
 aagggaagga agttcgagaa ggctcgtggc aggaggaaca gccgtggatt caaggtttaa 360
 aacaaattgt ggccctccgt gttgccatca gcatagtga accgttgtgt ttgatcagtc 420
 gacagt 426

<210> 27574

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G2

<400> 27574

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 aacatggcaa aactgttgag cctgttctta gccctctcct ttgtagcagc tatgtttgcc 120

ataggctctc atgctgatgg agactgtgag aatgacctcc aaagcctgat aagtgactgc 180
aagacatacg tgatgttccc agctaatacca aaggtccttc cttcggatgc ttgctgtggt 240
gtcatcaaga aggcaaactg ttcttgcttg tgctccaagg tcaccaaaga aactgagaag 300
gttgtgtgca tggagaaggt tgtgtatggt gctgagcagt gtaagaggcc atttgagcat 360
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<210> 27575

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-033-Q1-K1-G3

<400> 27575

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cgtgttgacc atgctgttga gcttgccgac tttgccctgt tctttaacca gggacaatgc 120
tgctgcgctg gatctcgac gtttgtacat gagcgtgttt atgatgagtt tgtggagaag 180
gccaaggctc gtgcattgaa gcgcgtcggt ggtgatccgt tcaggaaagg tgttgaacag 240
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gacggtggag ctacccttgt gacgggtggt gatagggtgg gtgacaaggg tttctacatc 360
cagccaacga ttttctcaga tgtccaggac ggcatgaaga ttgctcanga ggagatatatt 420
gggcctgtgc agtcgat 437

<210> 27576

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G4

<400> 27576

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gctgcgcgac tccacggagc tggtcccca gatcttcccc gagcagtaca agagcatcga 180
gaccgtcgag ggcgacggca agtcggccgg caccgtccgc ctctcaagt acaccgaggc 240

ggtgccgatg ctgacgttcg ccaaggagaa gcttgagacg gctgacgacg agaacaaggt 300
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 gctgaaggtg acttcggcca atgccgacgg cgagggctgc gccgtcgtca gcttggccat 420
 ggagttcgac aaggccaa 438

<210> 27577
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-G6
 <400> 27577

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 caagtatgca ctgacgtacc gtgaggatcat ttctatcctg atgcaacacc atgtacttgt 180
 tgatggcaag gtcaggactg acaagacctt cctgctggg ttcattggtc aagctctgca 240
 aggtgaggtt tgttcagttt ggccagaaag gcatccctta catgaacacc tatttgttgt 300
 acaggaaaac atagaatgga attcaaattt ggtggccgca aaagtgtgga gacttgaatt 360
 catataaagt taggcttaac attagtgcaa acagttgtat tttagtttag atttagagta 420
 cacttatgta tgcgttgttt gaca 444

<210> 27578
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-G9
 <400> 27578

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 atataatata gggccggcct ttttaaattg cccagcttta cttccccttc cttccgactt 180
 attacttctt ttttgttgcc ccctaattta atttctctgg ccgtcttttt ccaacttgcg 240
 tcctggaaaa accgtgggtt ccccaaattt tttccccttg ctgcacttcc ctttttgtcc 300

aacttacttt atctttatcg gccctttacc ttttgccctt ccaaacattt ccccccacctt 360
attgcctaatt ggtccccccc ctt 383

<210> 27579
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H10

<400> 27579

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cttccaaact tataatctgg ttggtttgga ttgtgatgaa ctaatggctc tttgaatgta 120
tattatgatg ttgacgatat tcggtgaaaa aagaatatca agcaaaaagc tcaacaaaaa 180
agaaaaaagc aaacaaaggt aaagcgcact aggggtggccg acctgactgc cgcttgcttg 240
ctacggcatc actcttctat ggtagcacgt aaacagagtc acctagacga atatgtacac 300
cgtattcact ggccaaactt catcg 325

<210> 27580
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H11

<400> 27580

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gcacaatcct ggatcgtcga ataacaactg ccgcctggac agcagtagca aacaccttcg 180
gatattgctc cttttttgca ggcctgtttc tcgcatttgc agaaacgaac aacgttccga 240
gagtatgcag gaatcatcaa acttcctagg atcaccatca agagcaggac agccttgctt 300
gcttccattg taattctcgc catataagga ttttttttct caggagccgt gtgcagtgtt 360
gttgtgcttc atgagggctt tgtgcttggc cgtgtcggag gctgcaagaa tccctactgt 420
actttttttt tt 432

<210> 27581
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-H12

 <400> 27581

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 cggttctccg acaccgtcgc ggtcgcggcg gagacgatgc acctcgccctc cgccctctag 120
 ctctaggccc ggccggccgt cgatcgcttg cctcttcccc cgcggtctc gtcggaccgc 180
 gggcggcctc gcgcgttttt tcggccgccg cgcacggacg cggcgcgtgc ggggctgccg 240
 gcgtctgctc tgctcgctgg attggacgga acacgccatc attgagtcag acaaactctgg 300
 acgtcgacga gctgtggcac caggacgcgg cctgtacatt gatcttgggg gggcctcggt 360
 gtgaaacaca aacttgaaa tgtcacggag cttaacgaga tccactgtgg tactctacta 420
 gcatacaata cac 433

<210> 27582
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-033-Q1-K1-H3

 <400> 27582

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 caacttcaca cggttttcac atgacagctt tttaggtaat cctggactct gtggatattg 180
 gcttggttct tcatgtcgtt ccaactggcca ccgagacaaa ccgccaatct caaaggctgc 240
 cataattggt gttgctgtgg gtggacttgt tctctctctg atgatcttag tagctgtatg 300
 caggccacac catccacctg ctttttaaaga tgccactgta agcaagccag tgagcaatgg 360
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 gaggatgact gaaaacttga gtg 443

<210> 27583

<211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-F6

 <400> 27583

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 aatattagct tttgctgtac attctgtaaa tttttccggt gactaggatt cttctttgta 180
 cgtaacattc agctaacttt ttgtacatca agcgaacca gaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaggca aaaa 274

<210> 27584
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-D7

 <400> 27584

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 caaacagtgt tccgagccaa ggccaggagc ccttgaacac gtttccagat tcagactatg 180
 gaaacacgaa caccggtccg ttgaatggcc atgcagcagc tcatgtgaac atggaagctg 240
 ccatcttcac ggaggacgtc atacgggctg gcgggttcgg tgccaaggac gacattggca 300
 gcctttcttc gactgcaatt gattccaccg attttgaggc ctgctgcgg gatgccctg 360
 gtttcgaggg cgagaaagcg gcgccgtcgc atcctggact aggggtggaag ggggagaaag 420
 ctgatggtgg aaccaaactg gcagatgt 448

<210> 27585
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-D8

 <400> 27585

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aacgctctgg gatcaaccgc cactgttctc acatcagcag atgtgatgga tgaaaactcc 180
ttcagcaacc caaccaaggt tgtgccggtg aagagcgatc tgagcaatgc tgcagagcag 240
atgcaggtea cgctggctcc tcgtctcttc agctcgctcg atctcgccct ggctcagtcc 300
aagcttgtag cggagatgtg agctaggctg gtacactagt atacaatata acgtgtgaag 360
tgtggtacac atataccagc aaccacaggg gttgccaagc tgttgtagc atcttgaaca 420
catggctttg tatggtgtat aatgacat 448

<210> 27586

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E10

<400> 27586

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ttttcttcta tattacagat attcaatcta tactatagac tctacaataa tgaccaatac 120
actaagcaga cagaatttaa aaatagaatt ctcatagata caactgtgcc tcctattcca 180
tgaaccccca tatctcagca actcattcta tagtcttacc actgtaaaga caactattca 240
taacaccaat ttcatatat 259

<210> 27587

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E11

<400> 27587

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tctctgtctt cgctcggcga tctatcaagg agggtagagg ggagatggcg gagaatccgc 120
agctgtttgg gaacgggatg ccggtgccgt tctacggcga gatgttcgtc ctgctccgcg 180
acggcgtcga gttccacgtc gacaagatcc cgtcagctcc tggaggatcat gtgaaaacaa 240

aaggcacaat ttacctgtcc aatataagga tgggtgtttgt tgccagcaag cctgttggca 300
 acttcctttgc ttttgatatg ccactgtttgt ttgtgcatgg tgagaagtcc aatcagccca 360
 tatttcactg caacaacatc tctggattcg ttgaaccagt cgttccagac aatcagaaca 420
 gggccct 427

<210> 27588

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E12

<400> 27588

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 aacaagcagc cccacacggc ggagatggag aaagagggcc ctgtcgtcgt cgagggcgct 120
 gtagatcctg agccccagcc cgagcccca caccggcgcc acatggagcg gagcaggctc 180
 gaggcggatg cagaggcgaa gctgccgttg ctcccgtcgc gtctgcacaa gtccgccagc 240
 gacaagtcgg cgttcgcgca ctccggcgcc taggaggtgg aggagaccgt gcgcgcggtg 300
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<210> 27589

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E2

<400> 27589

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 tctggtaatt attattgcag tggtcagttc aaagcataag gaaaccagta gcaccagtgg 120
 gatgcgagat agtggtgaaa caagtcctgt cttgcagtac agggcccata cagtgggtgcc 180
 aggtcaggtg ttgaaaatgg aagaagctat caagaaccgt gactttgaat catttgccaa 240
 attaacttgt gcagatagca accagtttta tgctgtatgc ttagacacga gctctcgcat 300
 gttctatatg aatgacacgt cacaccggat aattagcctt gtggaaaaat ggaaccactc 360
 agaaggaacc ccac 374

<210> 27590
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E4

<400> 27590

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 tctatcgtct gttaccgctc gatccctccc cggatcaact ggctcggtag ctagttgggg 180
 ctagctagct atataaggaa tcaccatgaa tccaccacac gtgcactaga tacagagaca 240
 tgacgacgag tacacgatcg aggtttcagg ccaccgcgtt cactccagc agcggccacg 300
 tatcccacag gtccggagtg ggcgagacga aggggtcgtg catgccatcg tactcgtacg 360
 cgacgtggtc gtagtactcg ccggtcgccg tcgagtcctc ggaggcgtct act 413

<210> 27591
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E6

<400> 27591

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 tcatcgcgac tatgcagaac ctgaaggccc tgggtgtgat caactactgc agcggcagcg 180
 cggccctgga caacctctcc gccttcacca cgctgagcgg gctgaggagc ctgtggctgg 240
 agaagatcat gctgccgccg ctgccaaga cgacgatccc gctgaggaac ctgcacatga 300
 tctcgtcgtt cctctgcgag ctgaacagca gcctgagggg gtcgacgatg gacctgtcga 360
 cgacgttccc gcgcctgtcc aacctgacga tcgaccactg catagacctc aaggagctgc 420
 cgtcgagcgt ctgccagatc gggtc 445

<210> 27592
 <211> 435
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E7

<400> 27592

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acaatgacct ctggttgact ttgaaggatc cttccgttga aaactaaaca atcgcttgta 180
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ttttatgtcc attttctgcg actatggata gcatgagtat tctgctggcc tgaattcccg 360
gtgtaaacgg cttctgaaat tttgaatcat tgataaacta atagtgtttg gtttgaggaa 420
aaaaaaaaa taaag 435

<210> 27593

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F1

<400> 27593

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gggtagaagt agagcgtcaa gaactagaag tcaactgttc gagtgaaaat gtagttgttg 180
aggatgtaac ttctccagga attgcaccat tgccgtcatc aagcccaaga gtgcgtcatt 240
cgttgtcaca aatgctgcaa gcagatagca atgaaccaga aattattgag tggggaaatg 300
ctgaaaaccc acccgcaata gtttttcata aggattctcc aaaaggattc aagaggcttc 360
taaagtttgc tcgaaaaaac atgggagaca acaatgctaa cggctgggca agcccctcgg 420
tagttt 426

<210> 27594

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F10

<400> 27594

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agcacctgga gaaggtgatc agcggctctgc tgctgggctc ggcggtggcg ctgggggtgga 120
agtcgtccga gcagcagcgc gagatccaga gcctgttggc cgagaagagc tctctccgag 180
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ccgccgagcc ctctacacc atttacgcgt cccggctccg ccacatctac tgcgaggagg 300
agcccgcgcc gatcgcgccc gcgcccgcgc cgtcaggagc aaatgatggg aaggaagagg 360
aaccgatctg catagcctga 380

<210> 27595

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F12

<400> 27595

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acggagctgc gggcgccgga tatcgcgctc tgcgccaaca actgcggctt cccgggtcaac 180
ccggccacgc agaacctgtg ccagagctga ttctcagcgt cgaggtcgta gtagtcgtct 240
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<210> 27596

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F2

<400> 27596

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tgggtagaag tagagcgtca agaactagaa gtcactgttt cgagtgaaaa tgtagttggt 180
gaggatgtaa cttctccagg aattgcacca ttgccgtcat caagcccaag agtgcgcat 240
tcgttgtcac aaatgctgca agcagatagc aatgaaccag aaattattga gtggggaaat 300
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<210> 27597

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F3

<400> 27597

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gatgagaggc ggagattggt ggcgagatgt acaagcagaa atatcatcag caaacaaaag 180
gtactacagt aggtaaatta cctactgtag taccaggtaa aggacaagag acgattccct 240
ggtaagagat ccacttgctc cggtccaccc ttactttccc tctctctgct gctcgcaaat 300
atccatcttt gaaaccatat atcatcctgc aacatgaatc catccttgag tcctaaaccg 360
gtgttcctat catttgctac tgcaaagggc ttctctttgc atgcttcagt cacatgaatg 420
atgagctcg 429

<210> 27598

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D6

<400> 27598

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ctgaggctgc aaatgaagaa cagaaaaccg agagcctgat gaggctctcc tgggcgcttg 180
ttcactctag acagcctgaa gacgtcaacc ggggcatcgg aatgcttgaa gcttcattgg 240
acagggtctag cagcccagag gaaacaaggg agaagctcta cttgttagct gttggctcgtt 300

acagaactgg ggattataca agaagccggc agctttttaga aagatgctta gagatccaac 360
atgactggag acaagccata actttgcaaa ggctcgttga agaaaaaacc aaaagagatg 420
gtatgattgg catggctatc attaca 446

<210> 27599
<211> 70
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-B9
<400> 27599

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atttataaaa 70

<210> 27600
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-C1
<400> 27600

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ccgcagctcc cagtttctgt gccagtgcaa gcgcccctga ggatgtgggg tgggaggagg 180
cccaagccca aggctagga gccaaacaag agggagatgg atgaggagga gaagcagaag 240
ctgacggtgg agattgagaa cctgcctgag gacaaagtgc tgaatgtgct gcaaattgtg 300
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ctggata 367

<210> 27601
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-C10
<400> 27601

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 cgacgtgggt gccgacctct tcggtcgcgt ctctccgaa gtgcgcaccg gtttcgcgcc 180
 cgccgtcgac tccttcgttg gtttcttcca cgccgtcgac tggaaggagc cttggctgat 240
 cagcatacta tctttccatg ccattctgct actggttacc atcatctcga ggaggaatat 300
 caatttccag ctcatcttgt cagctctaac attttctggt gtattccttg ctgagagatt 360
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<210> 27602

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C11

<400> 27602

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 atggaattat aaagatagcc gattttggac ttgctaggat atatcaagct ccaactgaaac 180
 cattatgtga taatgggggt gttgtaacta tctggtatcg tgctcctgag ctgttacttg 240
 gggggaaaca ctacaccagt gctgtcgata tgtgggcagt tggttgcatt tttgctgaac 300
 tgcttacact gaaacctcta ttccaagggtg tggaagcaaa aaatccttcg aaccattcc 360
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<210> 27603

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-033-Q1-K1-C12

<400> 27603

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 aacaagccag accagggttc cgaggcacca gctgcccagc gatctgcatg ctgcggttca 180

taagcagacg cacgatagcc ataatcattg gttatttgac actatttatt tcttgcttgg 240
cttttatagg aagaatttga ggaagccact tatgatatac tgatgatgtg gttgtactct 300
tgtttgcttc cactcttcga agcaaacacc tcttgctgtt gacgtagcta ttgcactctg 360
gacatccgtt ggaacaacct gtctnctncc tacagactac agtgtgtaat ggacgaattc 420
catgtc 426

<210> 27604
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C2

<400> 27604

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ggcggctgag gaggaagca ggcaggccat ggcgtcgtcg tcgtcgaccc cggcggccgt 120
ccgcgagatg cagaaggatc tcgaggtcca ggccaacgcc ctcagcaaga tccagaaaga 180
catcgccaag aaccaccagg tccgcaagca gtacaccatc caggtcggcg agaacgagct 240
cgtcctcaag gagctggagc tgctcagcga tggggccaac gtgtacaagc tcatcggacc 300
tgtgctggtc aagcaggacc tcgcggaggc caaggccaac gtcaagaagc gcatcgagta 360
catcttcgca gagctgaagc ggatggatcg ggcgctcaaa gacttggagg aaaag 415

<210> 27605
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C3

<400> 27605

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ctgggggccc gcaacttcgg cgtggcgagg ctggtcaggg acaagcggac caaggagctg 180
gtagccgtca agtacatcga gaggggcaag aagattgatg agaacttgca gtgggagatc 240
atcaatcacc agtcgctccg gcaccctaac atcgtacggt tcaaggaggt ttgtetaaca 300

cccacacatc ttgctattgt catggaatat gctgctgggtg gagagctatt tgagaaaatc 360
tgcttaacat ggcgattcag tgaagatgag ttca 394

<210> 27606
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C4

<400> 27606

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gaatgtccag aggcttaaga catacaaggc caagctgggtt atcttcccaa ggcgtgctcg 120
caagggtcaag gctgggtgact ctactctgga ggagcttacc actgctaccc aggtacaggg 180
tgactacatg ccaattactc gcggtgagaa gcgctctgta gaggttgtga aggtcacaga 240
tgagatgaaa gcgtttgcgg cctatggcaa gctccgcctt gagcggatga acaagaagca 300
ccttggtgcc cgccagaaga aggcagctga tgcagaaaag gaagacaaga agtgaagcca 360
ccaaactttg tagccctgtt tgttctgttc agtcatagct agatgctact tccattaagt 420
gcttggtttca agtttt 436

<210> 27607
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C6

<400> 27607

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aaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa 180
aattaaaaac aaaaatccct agaaaaaaca aaacaattc accaattaaa cacaatagca 240
accattttaa ataattaaaa cattccaaaa aaataaaagt tcataacata acaaaattca 300
a 301

<210> 27608
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-C7

 <400> 27608

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 aaataacaaa tctacatatc ggaagatttt ttacattac ccacaaccct tccctacaca 120
 aaccaaacaa aaaataaacc ac 142

<210> 27609
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-D1

 <400> 27609

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 agcaggggca acgcagaatc tattgttcaa gatattgtaa acatgggttcg atcttatggt 180
 gacaagccaa attgcatcat cttggctatc taccagctt accaagatat atcaacgtca 240
 gatgctatca agcttgccag ggatgtttat ccttcatgtg acaggacatt tggagtctta 300
 acaaagcttg atttgatgga caagggtacc aatgctgttg atgtacttga agggagacaa 360
 tatcgcttac aacaccctg ggttgaatt gttaatcgct cacaagctga tatcaacaag 420
 aatgttgata tgctttcagc aagacgcaaa 450

<210> 27610
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-D10

 <400> 27610

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gatgcacaag gagaaagatt gaaagaagca cagaacataa acaaatcact ttctgcactt 180
 ggtgatgtta tatctgctct tgcaacgaag acctcgaca taccctttag gaattcgaag 240
 ctaacgcact tgctccaaga ctactaagt ggagattcca aaaccttgat gttcgttcaa 300
 atcagtccta atgagaacga cgtgggtgaa actctttgtt cgttgaactt cgcgagcaga 360
 gtgcgaggca tagagcttgg acaagctaaa aagcaagtcg atattggag 409

<210> 27611

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D11

<400> 27611

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 gctggtggag atcgcgtgcg cgcgcacgcc cgcgcagctc ttgcggtca agcaggcgta 120
 ccatgaccgg tttaagcgat cgctcgagga ggacgttgcc gcgcatgtca ccggcgactt 180
 gcgaaagctt ttagtgcttc tggtagtggt gtaccgctat gatggcccag aggtgaacac 240
 atctttggct cattctgaag ccaaataact tcatgagaag atccataaga aggcttacag 300
 tgatgaggag atcattagaa ttctgaccac acggagcaaa gctcagctac ttgcagcatt 360
 caatagctac taggatcagt tcactcatgc aatcaacatg gatct 405

<210> 27612

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D12

<400> 27612

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 tcatcgaaaa caaccgccga agagctgctt gagaaagaat tgccctctgaa gttttagtag 120
 gtcgatgagg aacaaggcag gcttgcctc agtaatcgca aggcaatggc agatagtcag 180
 gccagctag gtattggatc agttgtcttg ggaactgttg agagcctaaa accttatggg 240
 gccttcattg acatcggcgg aatcaacggc cttctccatg tgagccagat tagtcatgac 300

cgtgttgacg atatctcaac agttctgcaa ccaggagata ccctcaaggt tatgatactg 360
agccatgacc gtgaaag 377

<210> 27613
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D2

<400> 27613

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caaaacatgt tgataactta acggatgggt gagcttactg gactgacaaa aagtaactga 120
aaagagggca agctgaatct attgatcaag atattgaaaa catgggttcga tcttatgttg 180
acaagctaaa tagcatcatc tcggctatct acccatctaa ccaagatata gcaacgacag 240
atgctatcaa gcttgccagg gatgttgatc cttcatgtga caggacattt ggagttttaa 300
caaatcttga tctgatggac 320

<210> 27614
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D3

<400> 27614

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tatgagtgcc cttcggcaag aatattcggg ctccgcaggc tctgaagagc ttttcgccaa 120
gagctccgct ttgttctgat ggctgagaat tcgccaggat gtttcatttg tttctgacag 180
tattggaaca gttttccttc tgccgttgta gttgaggaat gattctgtag gatgtgttgc 240
gggtgaaaac ttoccttttt cccccctttt aatcaggata gccctttgtg ggctcaaaca 300
ttgctgtaac ggctcgtgtg aaaattgccg ggcatgggt taactaaaaa aaaaaataa 360
ttatttataa tat 373

<210> 27615
<211> 348

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-B8

 <400> 27615

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 ctggaacatc cggacacggc tcctaggaag gcacacacgg ctaatcagaa ccggcattca 180
 tttgagagac ctgtaaaaat ttataactag gcatgttaga aatcgagcga tgagctgccg 240
 ctcaatacca agccagggtc gaagtcgctg gcttgaaata gagagcatgt tgctcaggtt 300
 tttcgatgga gctgtggaac tagttcagag gagactgac tggcgact 348

<210> 27616
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-A3

 <400> 27616

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 ttgtctgttt ctgtttggcc catctcccc atctttttta tagatctgct agggcagata 120
 aagatcgtgg gggtttgtact tgttctcctt tgatagctgg agtctcgatt tcgagtgc 180
 tgtgcgggaa taacatatat actcaattcc c 211

<210> 27617
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-A4

 <400> 27617

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 aagggtggtat tccagtaaca agttgatata gaatgacacc aacactccac agatctgcct 120
 ttgcatcata cttctgacct tgcattgact ctggagccat gtaaagtggg gaaccacaaa 180
 gtgtttcggc tagggcaaag gggttgcaaaa attttgcaaa tccaaagtcg gcaatcttca 240

acagagtatt ttcattatatt tcaacaagaa gaatgttctg aggttttagg tctcggtgaa 300
ccacgttatt atcgcggaagc attttcagac cagatgctaa ctgacggatg aagtgccttag 360
caaccttttc agaaactctt ttatgacgtt gaaggatatgc atgtaagtca ccacctcgac 420
aatactccag tatgagatat atac 444

<210> 27618
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-A5
<400> 27618

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cggcggcggc ggcggcggcg agaagttggg cctgaagccc ggacgctttc tcccgagata 180
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agaaagataa tgctgaattt ccaaaggctt tgttgcttct ctgagcgtat cttgacaaga 360
cagttcagca gaatgaagag ttactagact ccagtaaaat aaaggagtcg accactatct 420
ttcatggtca gaggggtgcct gaac 444

<210> 27619
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-A6
<400> 27619

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tcttacttca gagatcttct aaagattgga actggagcag caaacatgt agaaagaaga 180
aaagttaacc gactacatgt tgaagtagtc atagtgattg cacatattgc atctgattca 240
gattgttgta tggcaaattg ctggtccact catgtttgaa ccacgaaggt tttagttata 300

catttttcatt tcctaaatag ttgtttctcc taggccttag tgcggtacat tccccatgcc 360
aagacaatct tattttaatt tgacaatgga aatgacttgt tcgtttgact tataacttac 420
taacagttca ataactctcg t 441

<210> 27620
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-A7
<400> 27620

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cttgatgact ataagggctt tccatagcaa ggtactgctg tgctttggcc ttggaacggc 180
agtgggcttc cgcacagga aaggggttct aaccgatatc cctgcaattc tttgcttcgt 240
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tgaatg 426

<210> 27621
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-033-Q1-K1-A9
<400> 27621

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acaagcaaag gactaacctt gtgaagcgac tggagcctac agaagcgagg tctccacaaa 180
catcattgtg ggtaccacac ccaaggacag ggatctacta cccaagggc tttgaatggg 240
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gggaggcaga gccagcaagc tctattacat caaagaatga ttctacttgc tttgaccatc 360

catttgcttg atatatgaga ggctttgcac tggaataaaa accattgaaa gacacagctg 420
tgtgctttca ggaagaaaag agataca 447

<210> 27622
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B10

<400> 27622

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tgcgcgggcg gtggcgagg gcctcaaggc gctcgacggc gccggggatg acgtgtgaca 180
gcggtggacg ctgccgtgca gagggcctcc tttggttcac atgttcacag aacctcatag 240
cgttgcaata atgtactaaa catctgtgct cagtctttgt agaattaaat gtggatcaat 300
gtgagtgttc tcctatttca cataattcat ctgagccttt gttgctgcac agaaatgttg 360
atccgtgccca ctacgtgagt gttttcttat ttcacacaat ttgtccattt 410

<210> 27623
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B11

<400> 27623

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cattctattc ccgcttcac acgtcggctg gcgccttcg cgatcgtgtc gtttcttccc 180
gcagcctgcc tgcgtgtggg gtgatggcta ggcacttcaa gtacgtcatc ctcggcggcg 240
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tcgccatcat ctccaaggaa ccagtggccc cttatgagcg ccctgcactc agcaagggat 360
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gagagagact 430

<210> 27624
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-B12

 <400> 27624

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 ggcggggcag gagaagacgc ggctgctcct ccaggagacg ggcctcccga gcgggctgct 180
 cccgctgcgg gacatcatcg agtgcggcta cgtggaggag acgggcttcg tgtggctccg 240
 gcagcgccgc aagggtggacc actacttcgc caaggccggc cgccacgtga cctacggcgc 300
 ctaggtgtca gctgtggccg acaagggccg gctcaagaag atcacgggcg tcaaagccaa 360
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<210> 27625
 <211> 104
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-B2

 <400> 27625

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 taggcatttt ttcagataac ggaggtgcat cccatgaacc cata 104

<210> 27626
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-033-Q1-K1-B3

 <400> 27626

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 tacaggagaa gagccgatgg tatgtacatt atggtgttat aatagggtggc attggagcaa 120

cactctacgg ccgcagtgcc cgactcgcga cccagtgga ggtcactgat ggacaatgct 180
 ggtcaacaga accatctgag cggccaaact tacagagggt gnattaggct gcgctcatgc 240
 ggcatctaga aggtcaacaa cactagggac catctgcacg cataagttgt accagggcag 300
 cagtcagtca aacttgcatt ttacatccat gggccgtcaa ttcacgccat ccgcatata 360
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<210> 27627

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-033-Q1-K1-B4

<400> 27627

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 ctgatccttt tgggtgcgcct acaaagggtt ggccttggga ggacggcaca aattcgttgg 180
 ccatggctaa gagaagaatg agagctcact ttgagttcat ggagaagctg ggggttgaca 240
 aatggtgctt ccatgatagg gatattgccc ctgatgggaa aactctcgaa gaaacaaatg 300
 ctaacttgga tgagatagtt gagctggcaa agcagctcca ggttaggggt gagaccaata 360
 taaagccatt gtgggggtact gcacagctct ttatgcatnc tcgttacatg cacggagc 418

<210> 27628

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B6

<400> 27628

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 ttgaggaacc ttaatttgca gggaaatcct gtttccaaga aagacagtct tgtcaaaaag 180
 gttaagaaat ctgtgccaac cttgcgcata ctgaacgcat agcccctaga ggccatcttc 240
 aa 242

<210> 27629
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-033-Q1-K1-B7

<400> 27629

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gaaggcacac acggctaatac agaaccggca ttcatttgag agacctgtaa aaatttataa 180
ctaggcatgt tagaaattga gcgatgagct gccgctcaat accaagccag ggctgaagtt 240
gctggcttga aatagagagc atgttgctca ggtttttcga tggagctgtg gaactagttc 300
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aaagttgtac agagatgacc ccaccagaca attgtcttta gtagataaga taactnttta 420
cagtcgagtg gccgacgttt tagtc 445
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<210> 27630
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-A12

<400> 27630

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gactgggaga tcaagttcca ggccaagtac cccgtcgtcg cccgactcgc cgtcgacgcc 360
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 tggaaatgca gaagaacgag ctaccagaaa tgttaaggat ccatcgacgg aagaagcgctc 180
 tgtgcttgcg aagaacattg actgggcctt ggtgatgact atctgaaaca gcagacgagt 240
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<210> 27633
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 tcttcaggac caccaatcga ggctgggggc ttcgttgctg ggaacctgtt cgtgctgggt 180

catttatatg tgagtatgct ggtgagggtca ttgatgaact caaagttaat ttgaatgaca 240
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<210> 27634

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-G8

<400> 27634

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 tactgcggcg gctggcgcca tgatggccac tgctgctaca gcggtatcgg cgcccgctac 180
 agtggcatcg gcggctaccg tggtgtgat ggcggctacg gcggctgcta ccgtggctgc 240
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<210> 27635

<211> 348

<212> DNA

<213> Zea mays

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 agacaagatg gtgaagctcg cttcggaag cgtcggcgac tccttcagcg tcacctcat 180
 caaggcctac gtggccgagt tcatcgccac cctcctcttc gtcttcgccc gcgtcggttc 240
 cgtcatcgcc tacgggcaac tgacgaatgg cggcgcgctg gaccgggctg gcctgggtggc 300
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<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H1

<400> 27636

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tcctgaattc taccgtgacg cctccagtct ccagtacggg aaggtgtcca atgtccctga 180
agaaaacatt gacaagatgg tcaaggaaact caaggagcgg gaagagaagc ggaaatcggt 240
cagcatgagg cgcaagttta acgaagacaa ggacattgat tcgatcaacg accggaatga 300
gcacttcaac aaga 314

<210> 27637

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H10

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atctccaggc cggctctggcc taagatgacg tctgcaaaga gcctgctggt cccacagaca 180
aattgacatc gctggcgatg ccagtgcacc agctggtgag ac 222

<210> 27638

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H11

<400> 27638

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tgagcagtca gcgtatcatt tagtgctca gcaacatact tgtacattgc gggcgaggaa 180
aagaaggaaa catgtaaaat cagtccgagg gaaatggctc cagaaaagcc cctcagagcg 240
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313

<210> 27639

<211> 314

<212> DNA

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<223> Clone ID: LIB3067-032-Q1-K1-H2

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gcacgtctcg tacagcggcc cttctttctt ccattctccg gagcagcacg tagacattca 180

gctgccgcac catttccagc agcctgcgcg gaacgtccag atgctgtccc accccaactc 240

cctctcggat atggcgcagc aagactcgct tgggcggctc cgggggctgg acattggaaa 300

agggtccatg gcta 314

<210> 27640

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H4

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atgacctcaa aaattaaaaa gttccttaaa gcccatgctc gctttttgaa agcacaggaa 180

gaattgaaaa ggtcacaagc tcgttttgag agactcgggtg atttacttgc ttcagatatt 240

ctgaagcgtg gtgctaataga agaagtttct agtatcaatg ttgatgaaga tccaaatgtt 300

ccttatgaaa ggagcccaaa tgct 324

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<212> DNA

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actgaaatcc gtggacgaag ttgaggatga acgaattaaa caggctttga tttctcactc 120

ggaacaggca atcctttgca aaaacctggc cacgctgctg tctgatcttc ctcatatat 180

ggttcctttc aagacagccg accttgattt taagaagcca caggatgatg gagagaaatt 240

cataaaactc ttacgagcat tggaagcata tgcagaaggt tcctcagtaa atccaatcat 300

cagaagagca gcctat 316

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tttgaagcca gggctctcag gatggcagta aactgtgccc agaacatagg ccaagcagca 180

aaccaagaag aaggtttcta tgagcgggtcc cctgatttgc tagaggctgc agtagctcac 240

atccagttgg tcattgtaac caagttcatt tcgaagggtgc agcaggacat tcctggacct 300

ggagtgaagg aacag 315

<210> 27643

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H7

<400> 27643

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tttgaagcca gggctctcag gatggcagta aactgtgccc agaacatatg ccaagcagta 180

aaccaagaag aaggtttcta tgagcgggtcc cctgatttgc tagaggctgc agtagctcac 240

attcagttgg tcattgtaac caagttcatt tcgaaggtgc agcatgacat tcttggacct 300
ggagtgaagg aaca 314

<210> 27644
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H8

<400> 27644

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ggcaagtgcg gcgtctccgt cggcgtgccc atcagcccca ccgtcgactg caccaagatc 180
aactgatcga tggaaccata gtggaggtag ctcgctcgtt ggatggcagc gtacgtggcc 240
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cagactggca cataat 316

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<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H9

<400> 27645

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ccaggtcact ctggtctctg atgacagctc ctaaggacct gctggtctct ctacgtatta 180
gctgggctgt tgctgccagt gcacta 206

<210> 27646
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-A1

<400> 27646

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 gtgtggatgt gatacattcc ctagctgtat taaaagtgta actgtaatat cgaaaggcac 180
 actccatcat gccacggggg gcaattcttc cgtccacttg ctcatacgac tcaccatcat 240
 aaaaacaagc a 251

<210> 27647
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 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-A10
 <400> 27647

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 agaattgcat acagcagttt cttcgtctgt ggcattccag acaaaaaatg tatgttggat 180
 gttggatagt tgacttcgat caaggaacta aaatgcatac tctccagttc attgatcacc 240
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 aagattgata atcgaagggt tgtcatgggt tgctgtccag ccagctagtt cgcggttcat 360
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<210> 27648
 <211> 426
 <212> DNA
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 <223> Clone ID: LIB3067-033-Q1-K1-A11
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 gaagggcggt acaaaggcaa tggctcaa at gaacaggcag ctaaactctgc cagggttgca 180
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<210> 27649
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 <223> Clone ID: LIB3067-032-Q1-K1-G12
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 ctctatttag agacgtacac cagaaatgga ttgaggggaag gaactatgag ctttgcatag 360
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 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E4

<400> 27651

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 catctctaag atcagggcca ggaagagtga gctgctggct gcggagatca gttacatggc 240
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 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E6

<400> 27652

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<223> Clone ID: LIB3067-032-Q1-K1-E7

<400> 27653

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 <223> Clone ID: LIB3067-032-Q1-K1-E8
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<210> 27655
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 <223> Clone ID: LIB3067-032-Q1-K1-E9
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<223> Clone ID: LIB3067-032-Q1-K1-F10

<400> 27656

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gcagctgtac atcctgatcc ctagcccgag ccacaacact cttcgcacat ggagctgtgc 180
atgtactagg ctgatgcata cgccaagctg cctgtgctac cgtcgcgtct gcacaagttc 240
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<210> 27657

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F11

<400> 27657

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<210> 27658

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F12

<400> 27658

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acctgccgaa gctggg'gcg tcgctgcact ggacgtacga cgcgtccaag agtccctgt 240
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<210> 27659
<211> 311
<212> DNA
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<223> Clone ID: LIB3067-032-Q1-K1-F2
<400> 27659

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acctgctcca t 311

<210> 27660
<211> 312
<212> DNA
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<223> Clone ID: LIB3067-032-Q1-K1-F4
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<210> 27661

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-F5

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 agtaaataaa ccatctactc tgcgtactga agatgatcaa cagtcagcag atggggagct 240
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<210> 27662
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 <212> DNA
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 <223> Clone ID: LIB3067-032-Q1-K1-F6

 <400> 27662

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<210> 27663
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-F7

 <400> 27663

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aaatccttgt gaatattgtg atgtgggttac cacaaccacg cacaagtccc tcagaggggcc 120
 aagggctggc atgatcttct acaggaaagg ccctaagccc cccaagaagg gccagcctga 180
 ggggtgctgtt tatgattacg aagacaagat caactttgca gtgttcccat ctctccaagg 240
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<210> 27664
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F8

<400> 27664

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 tcgacggggc tggagcagaa gcagatcaac aactgggttca tcaaccagcg gaagcggcac 120
 tgggaagccgt ctgaggagat gcagctcgcg gtgatggatg ggttccaccc ggtcaccgtc 180
 aacgccgtcg cgttctacgt cgacgcacgc ctagtgggag caacgccggc gatgttctac 240
 gcccggccag atcatggggc tcatcatggt ctctggcaca atagattcag cccactcacg 300
 ctacccatgaa gta 313

<210> 27665
 <211> 80
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F9

<400> 27665

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 aagatggggtt ttaagccaaa 80

<210> 27666
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-G1

<400> 27666

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ctattttaact aactaactaa ctggctagct agctcgatcg gcagagcaaa gcgaaagcag 120

caagaagcaa agcaatggag aaccctgcga gtgtgctagt tctaccagcg caagtcaaca 180

aacttaactt tcgaaaactg tacattcggc gggcccggcc cggccacaag gagattaccc 240

aagaaggcaa gttccaactg ga 262

<210> 27667

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-G10

<400> 27667

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gaaaacccta gagcgctcga ccatggatcc gcagcagccg gagcctgtca gttacctctg 120

cggagattgc ggagctgaga acaccctgaa gcccgagat gtcattccagt gccgagaatg 180

tggctaccga atactctaca tgaagcggac cctgcggatt gtccaatatg aagcgcgctg 240

aagagtgaag acaagggtaa aactgaaga tgggtgatct attactcgcc acattaccta 300

tgtatacagt cttttggtgg aaatgaaaat gtgagacaac gtttgcattg cctgtgcctg 360

ctctgaacct gagctggata 380

<210> 27668

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E12

<400> 27668

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gacgccaaaca aattatccaa gtgtgttcaa attgcacgac tctatttaga ggatgatgat 120

gcagtgaatg ctgaggcttt tataaacaag gcttcatttt tggtcaccaa cagccatcag 180

gaggttctaa acttacagta caaggtctgt tatgcaagga ttttggatct gaaaagaaga 240

tttctggaag ctgcacttcg atattatgac atttctcaaa ttgaacaacg caagattgga 300
gacgaagaga ttgatgaaaa tgcacttgag caagctctta gtgctgctgt gacatgcaca 360
atattggctg gttgctgtcc acaacgcttc cgtgttcttg ctactctgta caaagatgaa 420
agatgctcga 430

<210> 27669
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-032-Q1-K1-G11
<400> 27669

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ctggggaatg ggaaccacac ctccggaaaa gggaatggag atgccgagga caaaggtttt 120
caaacctacg aggattacag gttctatgcc atttcagccg aataccctga gttcagcaac 180
aaggataaga ccctgggtct gcagttctct gtgaagcacg agcagaagct tgactgcggc 240
gggtggctacg tcaaattgct ggggtggatg gtagaccaga agaaatttgg tggagacaca 300
tcttacagca ttatgttttg accagatata tgtgggtaca gcaccaagaa gggtcacact 360
a 361

<210> 27670
<211> 311
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-032-Q1-K1-C7
<400> 27670

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cggcactgtc ggaggagacg ccacgactgt tcctcaggat gcttcgccgc agcctgagtg 120
ccaggtggcc gagcctgcac ttaatccaaa ggaggaagtt ctgaacgggg aggtttgtaa 180
ctcgctaagt gatgtggaga agcctgttgc tgaggaaacg ccggttcctg atgtcataaa 240
tgaagtgcc aataatgttg cagtggctcc accaatttca tcccctgctg taccattgaa 300
ggaggcacca a 311

<210> 27671
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-C8

 <400> 27671

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 ccaggcacta cctccccagc aagttcaaga agtttgtggt ccacaacgtt tctgagctgg 120
 agttgctcat gatgcacaac aggacctact gcgctgaaat tgctcacaac gtgtccacca 180
 agaagcgcaa ggagatcgtg gagcgtgctg cacagctcga cattgtggtc accaacaagc 240
 ttgctaggct ccgcagccag gaggacgagt agtctggttt cttgtcttaa cgacgaactg 300
 gatgttgcca ttcctt 316

<210> 27672
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-032-Q1-K1-C9

 <400> 27672

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 ccggtattcg ccggcgcggt agcgagagcg agagatggac tggaggatgt tcggtctcga 120
 gacccccctg atgggtggcg tgcagcacct tctggacgtg cccgacggcg acgccggcgc 180
 gggctgcgac aaggcgagtg gtgccgcggc gggcgggcggg cccacgcgca cctacgtccg 240
 cgacgcgcgc gccatggcgg ccaccccggc cgacgtcaag gagctcccgg gcgcgtacgc 300
 gttcgtggtg gacatgccgg ggctgggcac gggcgacatc aaggtgcang ttgaggacga 360
 gcgggtgctg gtgatcagcg gcg 383

<210> 27673
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-D1

<400> 27673

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ggctctgggt caagtatact tggcataaga cggatacctc ccgattcagg acagtcaaatt 120
gcatcttatac atgacgactg cacagcggcc cctgcagcaa acagcagttc aaggttgccg 180
aacggctgtg attcggaagc tcaatttccc aaagagttga tatcatcctg cgttgctatg 240
atgcttatga taaagaactg cacggagaag cagtatcacc ctgctgaagt cgcgcacatt 300
ct 302

<210> 27674

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D10

<400> 27674

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tttgagtacc acaagaaagc aattacatct atcgagtgga gtccacatga agcatcatca 120
ttagctgtaa catctgaaga tcatcaacta acaatctggg acctttcact ggaaagagat 180
gcggaggagg aggctgagtt cagagcaaag atgaaggagc aggcaaacgc acctgaagat 240
ttgccccac aacttctctt tgctcatcag ggccagagag acttgaaaga actgcactgg 300
caccacaga taccgtcgat gatcatatca acggcaattg atggcttcaa cgtgttgatg 360
cctagcaaca ttgataaac cattcctggc agcactgatg cagcaatgcc atctgctgag 420
ccacagcac 429

<210> 27675

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-D11

<400> 27675

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angaggagat atttgggcct gtgcagtcga tcctcaagtt caaagacctc aatgagggtta 120
tcaagagggc aaacgcgagc cagtatggat tggccgccgg cgtgttcacc aacagcctgg 180
acacgggtcaa caccctgacg cgcgcgctca gggccgggac cgtctgggtg aactgcttcg 240
acgtcttcga tgctgcgatt ccgtttggcg ggtacaagat gagcggcatg gggagggaga 300
aaggcggtga cagcctgaag aactacctgc aggtgaaagc tgtcgtcacc ccaatcaaga 360
acgccgcgtg gttgtagacg ctgcaagtgt ggccttgtgc acgagaacca cg 412

<210> 27676

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D12

<400> 27676

accggggccga cccactcgtt cgacggctcg tacattcact catcgactgt ttcatatgta 60
caagacggca tgaatatcgc agaggaggag atatatgagc ctgtgcagtc gttcctcatg 120
ttcaaagacc tcaatgaggt catcaagagg gccatctcga gccagtatgg attgaccgtc 180
ggcgtgttca ccaacagcct gtacacgggc aacaccctga ctctctcgct cattgccggc 240
accgtctgtc tgaactgctt atacgtcttc gatgctgcta ttccgtttgg cgggtacaag 300
ataagcgaca tagctaggca gaaaggcatt gacagcctga agaactacc 349

<210> 27677

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D2

<400> 27677

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gggcctggtc caccttgcca ccatcccat tactggcact ggcacacacc cagctaggag 120
ccttggcgct gccatcatct acaacagggg tcacgcctgg aacgaccatt ggatcttctg 180
ggtcggcccc ttcatggcg ctgccctggc tgccatctac caccaggtga tcatcagagc 240
catcccgttc aagagcaggt cttaagctgc cgtggccgtg ccgagacatg ccagtccgaa 300

gaacggggtg cttcctgtg

319

<210> 27678

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D3

<400> 27678

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tgatttgctca agaaatccgg aaatgcatag caagcgatac ccacatgaag attatgattt 120

tgtgacaccc aggagcagta ggtacgattc gtcagcccat catccttcaa catactacga 180

agacgatcca ccagtgtctg agtcaagggt tagaagatat gctgaagaaa ggtccaccat 240

tgtaagaagc ccagaaccac gtccgcgata tgacgaaaca gacataagaa taaaccaga 300

accaagatta ccata 315

<210> 27679

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D4

<400> 27679

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tggactgtcg caacatcacc gtcaacgagg ccaggtcccg cggcgccgt ggaggctgcg 120

gctgcggcta cgggtggtggc cgtggaggcg gcggctacgg cgggtggcggg cgccgtgatg 180

gcggctgcgg ctacggcggg ggcggtgcg gctactgtgg cggcggtggc tactgtggtg 240

gttggtggcg ctactgcggg ggcaaccgtg gctgttgcta ctgcaacttc gacgggaact 300

ggaggaactg atctgt 316

<210> 27680

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D5

<400> 27680

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cttcttcgac atgaccgtcg gcggcgcccc ggcggggcgg atcgtgatgg agctgtacgc 120

caacgaggtg cccaagaccg cggagaactt ccgcgcgtg tgcacgggcg agaagggcgt 180

gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg tcatccccga 240

gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc agtccatcta 300

cggcgagaag t 311

<210> 27681

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D6

<400> 27681

ccgggggtcat acccgccacg gtgcacgtcc aagtgcggcg actgcagccc gtgctacgcg 60

gtgcacgtgg ccgtgccgcc gggcgtgcct gtcaccaccg aatactaccc ggagggcgtgg 120

cgggtgaagt gcggcaaccg gctctacatg ccatgaccat gagcgagcaa ggagggcgcc 180

agccggtgaa gaatctctcg agagcgccgg ccgctggggc cggcgctgca ttattgcgcc 240

gggcccgggtg cctctcgccct gcgcgcgggtg tcgtcgtggt cctcgccgcg cgcattgggcg 300

ggatctgcgc tctgca 316

<210> 27682

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D7

<400> 27682

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atggcgcccg tggatcatgat gagcatgtgc gtcgtcgtgt cgctgggtggc ggtgcagctg 120

caggccacga gcagcgacgg cgccacggtc acaccgtccg tgggtgctgcc gccgatgacg 180

gtgccccgtg tgcgcgggtc gttggaggcc ggtcgtaagc tgcaggccgt cgacgccgtc 240

gggatgggca tggactccgt ggtgcgtcgg acggtggtgc tcaccacgat gcagacgagc 300
aactc 305

<210> 27683
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D8

<400> 27683

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atggtaagcg tggatataag cagcatgcac gtaggcatga cgagcttgac agtgcacctg 120
ctgctcacia acagctactg taccactgtc acatccttcg acctgatacc gaaattgaca 180
actccacgta cgctcggtcg agagtgcacg caaactacag cacagaagaa actacgccgc 240
ct 242

<210> 27684
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D9

<400> 27684

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tctgatgtaa atagattatt cagggtttttt ttcccccttg agcaacaccc cggaggcgct 120
atggcagcta tttgtgcagt gatcagctaa gcacctattg ctgtattatt tgtttgttgc 180
agcagagttg aatgtgcatt cttcgcctta tggaggagga atttatacag tgtgggggtg 240
ccttccccctg cactttggca ggttagtgaa gtgtgcccta gaggaaagtg gcatgtttga 300
gagcaatgag attgcagggg gctaaaatcc cctttgttat ttaaaattaa atagaagagg 360
aatttatcct ctcggatecc ctcaattccc tgtatcccaa acaaa 405

<210> 27685
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E1

<400> 27685

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tggaatgctt atgcttatga tgctcaaatt gctggtttat tctattcaat atatgttact 120
tcagctggat tccaggtttc tttaggtggg tacaatgaca agatgagagt tctcttaaata 180
gccatactag tgcaaattgt gaaatttgaa gttaagccaa acagattttc tgcactgaag 240
gaaacttctg tcaaggacta ccagaatttc aatttccgac aaccttattc tcaagcgtca 300
tactatgtct ctttg 315

<210> 27686

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E10

<400> 27686

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aaaaaaagaa taaaaaataa agaaataaaa aaaaaaaaaa taaaaataac aataacttaa 120
ta 122

<210> 27687

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-E11

<400> 27687

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tcaccctctg gaagaggact cttgttctgt gacttctctg actacaacat catcaagagc 120
tggcagaact aagacaactg ttctgttgc cccatcattt gtgtgtgcta accgtgctga 180
caagaggaag gagttctaca caaaattaga ggagaaacat aaagctttgg aagcagagaa 240
ggacgaggct gaggccagga aaaaggaaga gcaagacgtt gctataaagc aactaaggaa 300
gtcattggtg attagagcga aacccatgcc aagcttctat caagaaggcc cccacacaaa 360

ggctgaactt aagaagggtgc ctntactctg tgccaaatca ccaaagttta caagctcaag 420
gagaaagagc 430

<210> 27688
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C4

<400> 27688

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ggtgctctgg ctgagcttgc tccaactcac cctattagggc ttggactggc acttaacttc 120
tcagtgttct actatgagat tctgaactca cctgatcgcg cctgcagtct tgcaaagcag 180
gcttttgacg aggccatctc ggaactggac accctgagcg aggagtccta caaggacagc 240
actttgatca tgcagctcct tcgtgataac ttgaccctat ggacttctga catctcggag 300
gaccctgctg aagagatt 318

<210> 27689
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A5

<400> 27689

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gggatcttgc tctgctgga aatactgttg ccagtactgc tggtagagat gcatatgtat 120
gggatatcag ggctggcgag ttaacaagct tagtttccaa tgcccatggt ggtagcgcac 180
attcaattgc ttggacacac ctgccagatg tgctgtttac cggtggagag gatggcgcta 240
ttcgctgtt caatgtttct gatgtctctg atgatgaggg tgacattaaa ccagtggcaa 300
cttgggt 307

<210> 27690
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A6

<400> 27690

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atgaattgtc aatgaagctt caattggccg gacaagggaa aaatgaggcc ctgtataagg 120
ctggtccatt tggtagagt aaagctctga gaacaaatcc aacagttact cctgatttat 180
ccatcaatcc cagattggcc aacatattgg aacaggttgc tgtgaagaaa gaactgatag 240
ttgcattggc aaattctaata gtgaaagaga tgcttgagat gtggttcact aacataaaac 300
gagctgggat ttcaaatt 318

<210> 27691

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A7

<400> 27691

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ccatgaaacc cctcagctg ccggcagggg agggggcctc ctgggctcac gaggtcaagc 120
aggccctccg tgagaaactc cggcgctcct acggcgccgg agctgcctcc gccacaccgg 180
aggccaggcc ggccggcgaa ccaagccgtg gcgctgagt cgcgggctcg gcggccgagg 240
accccataag gagagtcagt ttcttggtc cctgggggtca cacataagaa cacaaaccgg 300
ccggccg 307

<210> 27692

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A8

<400> 27692

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cgtgccgcca agagaccgc tgctggtgta tccagcaact ccaaggaacc agctgatccg 120
gcatctagca acgaattagg gcatcagttg acgctgtcgg gtgccggtgc cgactgcctc 180

tctcacgcaa caaagcggca taaacggagc aacagctgat ggccgctctc cctcacctcg 240
ctccccgacc gacggatgac ggattgggtga cattcttctt ttccctccca gccaacgggg 300
aggctcgtgg attggctg 318

<210> 27693
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B11

<400> 27693

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cccggatcat taacgcctat cactacagat catcagcgct catatgtgcc tagctcaatc 120
tgctgtcgtc ctctatacga tctctacctc aagcaactgg ttccagagca tcttgtggta 180
tccacagatc catctgctta tctgggtgctc cagatagaac aattgagtga tgacctttat 240
cctggcttca caatctctca cctggatcat gaatagcacc attctgctac gtaca 295

<210> 27694
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B12

<400> 27694

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cccatcctcg ttctctccgt ctagcagcct ctcacctca tggccaagat caagatcggg 120
atcaatgggt ttggcaggat cggaaggctg gtggccagag tggccctgca gagcgacgac 180
gtcgagctcg tcgccgtgaa cgaccttctc atcagcaccg attacatgac ctacatgttc 240
aagtatgaca ctgtgcacgg acagtggaag caccatgagg tcaagggtgaa ggactccaag 300
acccttctct ctgggtgagaa ggaggttgct gagtttggct gcaggaacct tgatgagatc 360
ccatgggggtt cggttggcgc tgaatatgtt cgtgagtcta ctgggtgttt cactgacc 418

<210> 27695
<211> 160

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B3

<400> 27695

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 gaaggattaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaagggg attatctttt aaaaattcaa 160

<210> 27696
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B5

<400> 27696

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 tacttgcttg tcaactgtcg cggaattctt gccaacagtc aagagcagcc ttaaccctgg 120
 ctctctcat gatgaacgtt atgtgggtct cctctccata agcggtgaga ccgagacact 180
 agacatgatg ccatcatcaa gcactgcacc tactgctcta tgacctgcac gtggtcagaa 240
 accacctcct gtcaagactg atagtaccag caagatggct actgacagat ccagccgcac 300
 caa 303

<210> 27697
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B6

<400> 27697

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 aaccacgtga tgaggctgct gcggaggagg aggaggctga gctggcggtc ctgtcccccg 120
 gagtccatga acgtgacgac cctgttgctc ccgccgcctt cgtcggtggc tctgggaaca 180
 gtgcaactga ctacctgccg atgcctgagc cttttgatca tgactccgcc agttgcagtc 240
 ttaactactg taagctattg ctctgcaaga aggtttcctg tcctatttac ctgttctgcg 300

actctttacat ct

312

<210> 27698

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B7

<400> 27698

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acttcataa aactatctcc ggaattcttt ccaacagtca agatcatcct taaccctagc 120

tcctctcatg atcaacgtta tgtggctctc ctctccataa gctctgagac cgacacacta 180

accatgacaa catctgtaac cacctccacc tactgctcta tgacctccat cttctcataa 240

accacctcct atcaaaactg acactaccag caagatgtct actgacataa ccagccacac 300

caataact 308

<210> 27699

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B8

<400> 27699

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ccgagcacc cgggttcctt gcttgcccgc cgcgaatct agacagctct ttctcgttcg 180

tctgtatcca tggcgcgcgc cgcgagcaag accgtcgtg tcctcctcgc cgcgctgctc 240

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agcctttcgc cggcgcc 317

<210> 27700

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C1

<400> 27700

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gggaagtcgc gatcccttgg cagatgggta acatgacttg tgggtaaaga tgcgcaacct 120

ctgcagagtg taaaactggg atactagccg tgctcacggg catgagcagc tcggacactc 180

acatgattaa attatggaac ttaaactcaa ttgtcatat gcattgcac gcattgtagg 240

ttgttacttt tgggtacta ttaattggg ttggtattta cttatactta gtaattgcta 300

ataaaatttt ga 312

<210> 27701

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-C10

<400> 27701

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cctcgactg cgagctgctg gaggcctgcg actcccacgg ttggccgtcc agccactcgc 180

agtacacgtt cttcttcgcc acatacctgt cgctcctctc cctccgccgg tcgcgcgcgc 240

gccagtgat cgccgtcgtg ccatggccgc ttgccttctt caccatgctg tccagggctt 300

acctaggtta tcataccgtc gcgcatgttt tcgcgggagc agtagtgggc ctctgttttg 360

gtgctatctg gtactggatt gtcaatacca tgcttggtta ttacttncca atgattgagg 420

agagtgcaaa tcg 433

<210> 27702

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C11

<400> 27702

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aggtgcctat taaattatTTt tcctatTTTTt cttagaggat agaattacca cacctgtgcc 120
 tattgaattc agtctggaag ttgctctggg agttctgcc aacaggcaca tcatagaatc 180
 agcataaata aggcacaccc tttttttggg agattctgca cttgcctgac taaatgatcc 240
 tcacgatgga ataaaataca cagtaagtat gtttatacct tctatcaatg attttactaa 300
 ccttaaatta ttttgattag atatccattt gggggcagca aaactcgaga caacaactac 360
 gtagcgtgtc aagatggcca tcgggcagca cgtaagcgag gatatacata 409

<210> 27703

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C12

<400> 27703

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 gcagcgataa taatctatgg tgtagcact gttaaaaaaa aataaaaaaa acaaaaaatg 120
 aaaatataga ataaaaaaa gaaagaagat atgaaagttc tgacaatcaa tgcacataat 180
 agaatcagaa atacatgatg cacaccctga ttatgggaga ttctgcacta gtctgactaa 240
 atgaccctga cgatggaata aaatacacat taagcatgta cataccttct atcaatgatg 300
 atactaacct taaatgatac agaatagata tccatttgca ggcaataaaa ctcgagacaa 360
 caactactta acatgtcaag atggacatta ggcaatacgt aaacgatgat atgata 416

<210> 27704

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-A4

<400> 27704

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 ggaattgtct gaaaaatttg atatcgccat aaaggggtgtc agtgtcaagc ttgaggagca 120
 gaggggttag tgcattgctc agctagaaga gaacaatatg ttgagaagta aactcaaaga 180
 cattgctgat cagtataaca ttactcagca gaaatatgct caccaattga aagagaaaat 240

gatggaactt gagcttgctg atctgagact tcaacaacat caagagaagg ctgctcacga 300
acatacccaa atgcagttg 319

<210> 27705
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C2

<400> 27705

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ggccggtatg tggacttcag catcggagat aattcaggat accttcgctt tgaagattct 120
aaggcagctg aaaaagcccg catgtctgca gtacttgctg atggtggctt gataattaag 180
gaccacattg ttactttgga gcctgtgact ggtgaagctg agaaggatta ttgggacaca 240
atccgcagta ttcaaggaaa gtacaaggat agtagaagct acaaggggaag ggcttcaaatt 300
aaccagagag gaggaagccc 320

<210> 27706
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-032-Q1-K1-C3

<400> 27706

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aagagcgcca cgttctttct tctccctgtc aacattccga agcaaggag gtgatgccag 120
gtcaggtga tcctcagaaa gacagaagac accagaggtg gagtgtataa aatatcttcc 180
gaggttaggt atgagtatca aattttcagg gcggtacgcg gacgctgcta gcttgtgatt 240
ataaatatat aaatatatat gttgtgtatc tatggcaatt catataagct accagttgag 300
ccccccatgg ttact 315

<210> 27707
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H1

<400> 27707

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cgtagagtga ataattgcct gcttcgaaaa ctgctaaaaa acttacaatt aattccgatt 120

cttgtggggt cacttgagga gccagcaaac caccaaccaa gggtcgaga gcaggtatct 180

agagcaagat gtacggctag aaggctgact ggctgtagga gccgttgacc aagtcgttat 240

acatcttctt atacacctgc ttctgacgt agatgcccta ccacttgagc taagactacg 300

cgttagagca cgccgtcgcg caaggcatgc cgtactggtc gccgttcttg tcgtcgtac 359

<210> 27708

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H10

<400> 27708

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caagtgcggc gtcagcatcc cctacaccat cagcacctcc accgactgct ccagggtgaa 120

ctaaaacctt gaccacgcgc gacgacggcc gcctgatcga tcgatcgacc attccgccgt 180

cgccgccggc cggatcatcg atcgtcgtca tgatgatatc tatcaatcta cgcgtgatga 240

tcgattgcta cttgtctact gctatgtact actaaataaa atctctccgt gtgtacacgt 300

acgcttgcat gtgcatggta gcatgtacgt acgacgtcgt ccatgtataa gtgtgtgacg 360

tgtgagacag agagagagag agacaggatc gatcg 395

<210> 27709

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H11

<400> 27709

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ttagcaaact tgtccctgtc tgacagaaca gcatcatcag ccttccgttt ctttgatggc 120
 agaatgcttc tcttacaagt agagtaatct tcgatggcga tctgacgagc ctgttaatca 180
 gcaggtttgt cgatacgagg tcaaagggcat cgcaaaaccc tctgtactgc cattgttttag 240
 ccccccttca gacagatgcc gtcgacgaga tgatcgcttg agaacaaatt tgagattggg 300
 atagtctgca tttttgtcgt tagcatgtgt cgctagggat tgctattgat tttcttgtaa 360
 tagcataatc tttactgtag aatagggcatc gggtgctaac caatcctatg aacatataat 420
 taacatt 427

<210> 27710
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H12

<400> 27710

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 catccgttcg acaacaaatt ttggcacaac ttccacaggt tcagcacttg aacaatctaa 180
 gttaccaaca caaggcattt taagttcaga gaaaagtgag aaataaacac atggccattt 240
 ctagtccatc tttactccaa caaacctta gatgctgctc gggtagatga acactctgac 300
 cttgcgcccc atggactcag gcgggagggt ggacttgaac ttggcacgga cgacgcccga 360
 gtttccgtgc ggacgggtga cctttgcca aatgcaccct g 401

<210> 27711
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H2

<400> 27711

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 tacatgcatt gtgtcatatc ctgcaaaggg tgtttacga gccctcgccc attcagacta 120
 cggcctgata actcttctgg caaccgatga tgcattgggt ctccatctat gc 172

<210> 27712
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-H3

 <400> 27712

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 gcgtgaggcc aagaagattg acaagcacat gtatcatgac atgtacatga aggtcaaagg 120
 taacgccttc aagaacaaga ggggtgcttat ggagagtatc cacaagtcca aggctgagaa 180
 ggccagagag aagacacttt ctgaccagtt tgaggccaag cgcgccaaga gcaaggcgag 240
 ccgtgagagg aagatcgcta ggagggagga gaggttggcc caggggccac gagaaataac 300
 accacctgtc tcatccacag ctccagctac tggggcaccg aagaaagcaa agaagtgaag 360
 tattgaaata aagctgtagc tttctagtcc agtactgcac tttcttttat aagctctagt 420
 caaatTTTgg agcgctgaa ctgttttgct ggtatataac t 461

<210> 27713
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-H4

 <400> 27713

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 gtcagcagca catcacacaa ggtttccatc gaaggttcaa gagcacatac cccaggtgga 120
 gtagcaaggg aatctctccc atggagtcca caaccataaa ttgtgattat ataactagcg 180
 tgatgtagga cacatacaat gaaggccagg atgtcacaag gctacctaac tgtatatttg 240
 catgcagctg agtggctgac tgaggccaca agtttgatct aactttgtac ttgtacacag 300
 ggttgaaaaa caggaagaag gtacattttg tttttgtaag tagcgtagt tggtagtgc 360
 tgggctcaga ttggggcccc tcaagtttca ttaaagcttg ttcccgtgcc tcgtcgagt 420
 gtaggttgca tttttttgaa gacaggactg gctgaatcat gtatatc 467

<210> 27714
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-H6

 <400> 27714

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 ggaataatgt cggccgatga ggggtgccgtg atcgcggtgcc acaccaacga cgagttctac 120
 gcccgcatgg ccaagggtcaa ggagcatggc aagctgctgg tcatcgactt catggccgcc 180
 tgggtgcagtg tgtgccagat gatggccacg gtgtacgctg actgcgtcag caagtactct 240
 tccgcggtct tcctcgtggc cgacgtcgac gaactgctgt aagtcgctaa gatctacggc 300
 atccatgtga tgccgacctt ctgcttcatt atgaacggcg agacgc 346

<210> 27715
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-H7

 <400> 27715

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 gcggcaggaa gggagaaaag cggaagagcg ccgtcgacgg cttacgtcca gggtcgatcc 120
 gtcctcaata gatggcttgt gaggatcgta gaggtgtact aatgggtgtct tgaccttgac 180
 ccactggaac ttgtgcggtc gcatggcaat ttctcgccga agtggatgaa ccaccgtaat 240
 tccggccttt atcgtggcct gacctgtcgt cattttcact gccgtgcgag gacacgtgtc 300
 atcttgaaat g 311

<210> 27716
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-H8

 <400> 27716

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agacaggctt tgtatggata cgatcctggt ttgactgaag ctgatctgga gccaaacatt 120
gttattaaga gctgctgtgg tagaaggaag aaaaagaaca agagttatat ggatagtcaa 180
agccgtatta tgaagagAAC agaattctca gctcccatct tcaatatgga agacatcgaa 240
gaggggtattg aagggttatga ggatgaaagg tcagtgccta tgtcccagag gaaattggag 300
aaacgctttg gtcagtctcc tattttcatt gcatccacct ttatgacaca aggtggcata 360
ccaccttcaa caaaccagc ttctctacta aaggaagcta tccatgtcat cagttgtgga 420
tatgaggaca aaactgaatg gggaaaagag attggctgga tc 462

<210> 27717
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H9

<400> 27717

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cggctacatt gtcctgagt acgcctacac gctgaagggtg gacgagaaga ggacgggggc 120
ccggagaaga agcagcagca gcagcaggaa gggccacacg actcgccgcc gcagcaggat 180
cttcttagta tctagaagcg cagttgcgag agttggctgt actgatggta cttggtagca 240
tccttgcttg cctgttctt tgagtgaagc gttggaacgt ggcgtgtgtg tagtgtaact 300
gtgtatgcag gcggtgattt atatgcatgc ttcctttaag t 341

<210> 27718
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A1

<400> 27718

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cctcgccgag ttcactctca cttctctctt cgtcttcgcc ggcggtggct ccgcatggc 120
aacagggaag ctggccggcg gcggcgggga cacgggtggtg ggctgacgg cggtggcgct 180
ggcgcacacg ctgggtggtg ccgtcatggt gtcagcgggg ctgcacgtct ccggcggcca 240

catcaacccg gccgtgacgc tgggcctcgc cgtcacgggc cgcattcacgc tgttccgctc 300
cgcgctctac g 311

<210> 27719
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A10

<400> 27719

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accagaccga cgctctcgag ccgccgcacc ggtacgtgcc ctgggtgggc gtcgacgggc 120
agcccctgct agaggtaagt tcctttcttt cccctgaact tcaacgggcgc cgcctttgcc 180
caactgtctg atcaaagttc attcccccggt tgggtgttggg ggtgatgatg aacatgttct 240
cgtcgatcca ggattacgag aatttcgagg cttacatctg caaggcttac aagggcactc 300
caccgaaggc ctgtgagggc ctggaacgtc tgcagatggc cctcgagaca gcggcggatg 360
cgcgcaacgg cgtcagctac aactccggtg tcagcaagct tgcgactgct gaagatgatg 420
gtggggagca 430

<210> 27720
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A11

<400> 27720

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actccggggc cagctgccga cgtcgccacg cgcattccgc cgcgccaatc gggtacacga 120
gcagggcggg ggatgacgtc gtcggcgctc gcgccggcgt ccaatggacc gcgctacgcg 180
ccgccggatc caacgctgcc caagccgtgg agggggctca tcgacggcaa cacgggggtac 240
ctctacttct ggaaccctga gaccaaggtt acgcagtacg agcggcccgt cgcgcccggtg 300
cccaactccc cgtcgcagcc gcctggctac tccaggcccg aggagaggcc gagaagcagc 360
acaccttccg agcggagctc ggaaaccacg gtga 394

<210> 27721
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-A12

 <400> 27721

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 ccaatgcgta cgatgacagg tctacgacgc gaacctgcgc ccaacggacc ccgctccggc 180
 caaccgtacc aacctgccc aagccgcca ggcagctcat ccgccggaa aaatgtgcaa 240
 ccactacttc tgaaaccccg agaacaatgt tacgcatcac cgaccacgac ctcgaggtcc 300
 ttcccaactg cgagaccaag ccccatgcc acttcacgcc cgacgagagg ccagaagca 360
 gcacatctac tcagcagaac 380

<210> 27722
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-A3

 <400> 27722

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 gaggaggagg tcgggaggct caaggaggag atccataggc tcggccagca gcagcccgat 120
 ggctcttaca aggtcaagtt tggcgttctc ttcaacgacg atcggtgtgc aaatatcttt 180
 gaagcactag ttggcacctt gagggccgcc aagaagagga agatcttgac ctacgaaggc 240
 gagctgcttc tgcaagggtg ccatgacaac gtggagataa ccctgttgcc ccacctgca 300
 gttgctgccg c 311

<210> 27723
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-G9

<400> 27723

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cgtgacgata agccccgggc cgtaagccca ccgatcaac agcaggccgc agattcccct 120
gtttccagaa ctccgtcgaa tcttccccct cctccacgca gacgcagctc cctctcctct 180
cagccccac ccatcgagcc gctagcgccg gcgccccggc gcggtatgga ggctgggtggc 240
gaggagtctg cgatcgggct ggtgctctcc gcgaagacca ccctgnggga ggagtctgag 300
ggccagatcg tcgccttcga tcgacccttc aacctnctcg ttatccagga gggcgtgggg 360
agggcggaga gcggagagcg gcggaacgtg aagggtgctga aggcgaacta ca 412

<210> 27724

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F12

<400> 27724

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ttcttcgaca tgaccgtcgg cggcgccccg gcgggcccga tcgtgatgga gctgtacgcc 120
aacgaggtgc ccaagaccgc ggagaacttc cgcgcgctgt gcacgggcca gaagggcgctg 180
ggcaagtccg ggaagccgct ccactacaag ggtccacct tccaccgct catccccgag 240
ttcatgtgcc agggcgggga cttcaccgc ggcaacggca ccggcgggga gtccatctac 300
ggcgagaagt tccccgacga gaagtctgtg cgcaagcaca ccgaccccg tgtgctctgc 360
atggccaacg ccggggccaa caccaacggc ttccagttct tcatct 406

<210> 27725

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F2

<400> 27725

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cttggggttag tggctcttct tttcggagac ctgtgaggag agccattatc atggccgctg 120
 ttgagactgt tgttctcaag ggtgctatgt catgccaggg ctgctccggg gctgtcagaa 180
 aaatgctctc gaaaaatgaa ggggttgaaa ctttcgacat atacctcaat gagcagaaaag 240
 tgacagtcaa aagcaatggt aagcctgtag acgtctttca gaccggtttc aaatttgggt 300
 aaaagacctt c 311

<210> 27726
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F4

<400> 27726

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 ataagatcaa gattgttgag ttcattctctg ttctactatc aattggtagt gcagctgcca 180
 aaacacgact gattcaacta ggagcaatca agcatgctat agatctatct tttgagtacc 240
 cgtttaacaa cttcttgac caccgtgcga gaatatcatc ggctcatgtt tggagagtaa 300
 gcaggatcga ctgattgacc atgtccttga tgattgtaaa cttgttataa gaattctgga 360
 agcagagaag aactctgctc tgtcgtcaga tttaacgaag catacattgt cttcagaggg 420
 aagattttca ccatggatag gaattgttgg tcatatgaca cagat 465

<210> 27727
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F5

<400> 27727

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 acaggccggg gccgagatgc gcctgcgcca gagtgcgcct cgcggggggt gtacccgtgc 180
 ctgcggtacg ccaaggccga ctcttacgtt ggctctccaa agtggcgaaa agtaggttgt 240

acgagtgtat ggtgaagacg atggagatct caccttgtat ttcactctgg aatcctacat 300
gaacactcga tgtacagcag cagcagcgtc ccgatgccga gcgtcatgac cgtcgaggag 360
aaccgacagc gcgccatcga cggtaacacc aaccgctcgg tggagagaga ctctgtctga 420
taacgtgtca aagtctactc agtgataatc agattgagag 460

<210> 27728
<211> 455
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-F6
<400> 27728

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caatacctgc tgcagtcacc ctctgtaccg tgagtctgag cttatccagg agaactacct 120
tggtgtgaga aatgcagcac agaggaagct actggatgag ctgggcatcc cagcagaaga 180
tgccccagtt gaccaattca cccctctggg ccgaatgctt tacaaggcac catctgatgg 240
gaaatggggg gagcatgagc tcgactacct gctgttcacg gtccgggacg tgaagggtgca 300
gccgaaccca gatgaagtcg ctgatgtgaa gtacgtgaac cgcgaggagc tcaaggagct 360
catccggaag gctgacgctg gcgaagatgg ngtgaagatc tccnctgggt tcatgctgggt 420
ggtggacaac ttctcatgg gctggtggga ccatg 455

<210> 27729
<211> 461
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-F7
<400> 27729

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gttgcagaat gctggtggag cagggatagt tgatgtggat tcttacgagt ggtctcgtga 120
tggttccgcg ctttattcct tcacccttcc ggggtctcacg ctacagctaca ccgccggcga 180
gaagctcagg gcgtacatgg tctcggtgcc ctatccgggtg gcgtccttga gcttcggctg 240

tgagacggtc atcagccgca agaatcgggc gccggtggtg gcgggattct cgtcgcgtgg 300
 ccccaatcct gccgcacccg agctcctcaa gcccgatgtc gtcgcgccgg gagtgaacat 360
 tcttgccggc tggtcaggcg acgcaccact agcggnggtc ttcgttcccg atgggaggag 420
 agcgaactac aacatcatat cggggacttc catggcgtgc c 461

<210> 27730
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F9

<400> 27730

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 cctaaacccg aaccgaaacc ggagccaaag ccagagcccc aacctaagcc agagcctaag 180
 cctgagccat agccagaacg aaagccagag ccacaaccaa agcctgagcc taaaccagaa 240
 ccaaaaccag agccaaagcc agagcctaag cccgaaccaa aaccagagcc aaagcctgag 300
 cctaaacccg aaccaatgtc agaacctaaa ccagagccaa aagctgagcc gaaaccgaaa 360
 cccgatccag agccagagcc acaacc 386

<210> 27731
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G1

<400> 27731

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 gcggttattc ccgcttaaaa taccgccaat aaaactacaa ttcattccaa acctctaggt 120
 caatttaacg cccaaccaac ccacaacca ggcccagaac acagtctcta gcccaatcta 180
 taccgccaaa tgcaagccgc tttaaccccc cctttgacaa accccatata cattttctta 240
 tacgcggttt 250

<210> 27732

<211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G10

 <400> 27732

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 tcagctgggtg aactgttcga gcttgtgttc gaacgatcag ccgcggaccg tgagcccacc 120
 ggatcaacag caagccgcag attcccctgg ttgcagaact ccgtcgaatc ctgcgagtcc 180
 tacacgcaga cgcagctgca tcttctctta gtcatcactc atcgagccga tagcaccggc 240
 gcccggaacg ttgatggagg ctggtggcga ggagttcgcg atcggcgatga cgctatgcac 300
 gaagaccatc ctgggggg 317

<210> 27733
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G11

 <400> 27733

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 gactaacacc gagctagcag ctgcgtctgt cctgcaacaa tggccgctcg ctctctctcc 120
 cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggccggggggcc 180
 gggacggcgt cggcggcggt gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc 240
 ggggtacgca tgggcagcgc ggcgtcgccc tccgcgggggt gctgcagcgg ggtgcgctcg 300
 ctcaacagcc gtgcgtagtc ggcggcggac cggcaggcca cctgcaactg ccttaagagc 360
 atgacggggc ggctcggc 378

<210> 27734
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-G12

 <400> 27734

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 ccacccctcgt ttctccggc tagcagcctc tcaccctcat ggccaagatc aagatcgga 120
 tcaatggggt tggcaggatc ggaaggctgg tggccagggt ggccctgcag agcgacgacg 180
 tcgagctcgt cgccgtgaac gaccccttca tgagcaccga ttacatgacc tacatgttca 240
 agtatgacac tgtgcacgga cagtggaagc accatgaggt caaggtgaaa gactccaaga 300
 cccttctctt tggtgagaag gacgttgctg tgtttggtg caggaaccct gatgagatc 359

<210> 27735
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-G2

<400> 27735
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 cgacgagggc aaggcgaaga aagtccttcg ccaggctcgag ttctacttca gcgacagcaa 120
 cctccccgcg gataagttcc tgcgggagac ggtcgagcag agcgatgacg gattggtgag 180
 cttgcccttg atatgctcct tctcgcgat gaagtccac ctggggctgg acgcagatgt 240
 caagcccag actgtgccg aggagaccgt gcttgcggtt gctgaggtgc tccggccttc 300
 tcttgccctc cgcgtatcgg aagatggaaa gaagattggt agagctagtg aactcttgaa 360
 gccagatgag atcatagaac aagtagactc taggactatt gctgtatctc cgtgccttg 420
 caatgtaaag caggaagacg tncaatcttt tttcaciaat tatg 464

<210> 27736
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G6

<400> 27736
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 aaaaaaaaaa aaaaaaaaga ataaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaata 120
 aaaaaaaaaa aaataactga acaagacatt acaatcaaaa aatatgaaca atattgtggg 180

aatgcacttg atatgcttct tcttacagat gaaaaaccac ctggggctgg acgcagatgt 240
 caatccacga actgt 255

<210> 27737
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G7

<400> 27737

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 ctgtgggctg ccactatata ttatagttgc ttgggatgtg ttttttataa aaaaaaaaaa 180
 aaagggcgagg c 191

<210> 27738
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G8

<400> 27738

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 ctttgtactt caacagaggg tggggcaggg cagatcagac aattttctgt gtttcttatt 120
 tccattgtag tctgggatct ctgttcttcc ctccatgcc tgttttagt aggcattcatt 180
 ctttgctcgt atatttggct gtagcattcc ttgtttgttg atcaatacac ctgttcagct 240
 tgtattgctt tcttctcaa atggatgtat ggattcactt gcataacatc gtgaacaaac 300
 attc 304

<210> 27739
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-F10

<400> 27739

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ggtggaagtg tggcttcaga caataagtcc aggtcaaagg acgccaatcc acaggcattc 180

ctgtgaagaa gttttcactg tcctcaaagg gaagggtacg ctcttgatgg gatcaagctc 240

actaaagtac ccagggcagc cacaggaaat tcctttcttt cagaatacca cattttcaat 300

ccctgtaaata gatccacacc aggtttggaa ttctgacgag cacgaagatt tgcaagttct 360

tgtgatcata tcgagaccgg ctgctaagat attnttatat gatgattgga gcatgcctta 420

tacaagcgtg ggactggaat tccccctcgt ctgggatg 458

<210> 27740

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D2

<400> 27740

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tctcctggcc ttcccgcgcg ggcgcgcgct ctctttccg aattccgact cccgcctccc 120

cggggtgctg gtttccgcat ccggctcgtc cggcgatcct cgcgaggcct cctcgacccc 180

gaccccgacc cggcgcggcc accggttcaa gacattcaca aaaaaacatg ggcatgatg 240

aagctgtagg tactcagaat t 261

<210> 27741

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D3

<400> 27741

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aagaaaaata taaaaaaaaa aaaaaaaaaa aaaaaaaaca aatttatata attatatattt 120

actatctctt aaatactatt atatacactt ttcttttata tataactaatt ttaattaact 180

tttatttttt tttaaatttt tttatttttt ataaattttt ttatacccaa ttactactc 240
 ttttatattt ttattttatt tttcattttt tcttatattt caatattttt acatcttttt 300
 t 301

<210> 27742
 <211> 205
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-D4
 <400> 27742

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 gaaattgtat aaataaataa atttaataat caattttatt tttaaattatt atatcttttt 120
 ttctttcttt ttaactatat tattttctct tattcttttt tttttttttt tcttttttct 180
 tctcttcttt tttttttttt ttata 205

<210> 27743
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-D6
 <400> 27743

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 acaacatctg gcgtctctgc caggaaattt caaacagaca ttgaagctgg ccaggtgggc 120
 atcaacgtgc cgattccagt cccctgccc ttcttctcct tcacgggcag caaagcttca 180
 ttgcgaggag atttgaattt ctacggcaag gctggcgtgc agttcttcac ccagatcaag 240
 acgatcacgc agcagtggaa ggagtcgccg gtgcagcggg tctcgctctc catgccacc 300
 tcgcagaagt gagacgtcaa ggacgtcac gccactctcc aaagcttcac tcctttccac 360
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 cactccatgc atggccatga tactagtgtg tgctcg 456

<210> 27744
 <211> 460

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D7

<400> 27744

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cggctgtcta tttagtggcc caatatgcac ggaggggagat caaaaggatg gaaggggaag   180
cagaagagaa aaggaaaaaa gacgaggaac ttgagaaaca aaaacaggtc gaggaagaat   240
ctgccaagga ggatgctgat tcaaagcttt cgaagggtatt agacaggcta gatacactag   300
agggtgtcgt taaggagatt gtggatgaca aaaggaaact ttcttcccct gatttaccga   360
ccaaagagga ggttgcaaag aaaaatgaag catctccggc taaggcttct gattccagaa   420
gctatggtca gccagtgggt gctgccaata gtaaggacac                               460
  
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<210> 27745
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D8

<400> 27745

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gtcgtcggcg ccgttcgtgg gactgcactg cttacatctg cctgcgtcga ctgcgtacga   180
ctacatcgaa catatacacg agatgtctct tgtgaataga gccactgatg ccttgagcat   240
cggtcactcc gcaggttcca tctaagagag aaggcaaaca actgtggaaa attgaccgca   300
aagcacataa ggaggatgga taggaaggaa atggcatggt tcaaagtatt ctgccaagga   360
agaggcatac ctgtgctgac ctccgagctg ttcacacgga ctccaaaagc cgatcaatct   420
ctgcgatcca tggtcaccaa tggaatatag                               450
  
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<210> 27746
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-031-Q1-K1-D9

<400> 27746

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tgacgctggg tagctccggc gccggatcga gcgtcgtcgt tccccgaaac ttcaggctat 180
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atgatgccga tgacatctac atgcggtcat ggactggtag catcattggc ctcacaata 300
ctgtacatga gggtcgcac taccagctga agtngtttgt gacacggact attcggagaa 360
gccaccatct gtcagattcc actcaaatat caacatgaca tgc 403

<210> 27747
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E10

<400> 27747

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acgcctacaa catgcgcaac acgatcaagg acgagaagat cgcgtccaag ctggctgccg 180
acgacaagaa gaagatcgag gacgccatcg acgcggccat cagctggctg gacgccaacc 240
agctcgccga ggcggacgag ttcgatgaca agatgaagga gctggagagc ctttgcaacc 300
ccatcatcgc caagatgtac cagggcgcggt gtgccgacat gggaagctcc ggcggcatgg 360
acgaggacgc tccggctgga agcgggtggac ctggcccca gatcgatgaa gtggactaaa 420
cggtttgggt cagtctcgtg tgtct 445

<210> 27748
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E11

<400> 27748

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acctccacta caactaggca ggcgagatag ttaggtcaaa tcgatattga cctgagatga 120
ctgatcatag cttaaatt 138

<210> 27749

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-E12

<400> 27749

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cccggccgtg caagatgtca ccagcgtcga cgaggccgag aggataactca ccggggatga 120
caaagccgtc cttgccttcc tcgacactct aaccggtact cacagtgcgc agcttgctgc 180
tgcttcaagg ctggaagata gcatcaactt ttatcaaact tcgattcctg atgttgctaa 240
gcttttccat atcgaccag cagcaaagcg tccatccatt gtactgctga agaaagagga 300
ggagaagttg accttctatg atggaaagt taaagcatca gccattgctg aatttgctgc 360
tgctaacaag cttgctttga ttaccacact aactcaagaa actttcnctt ctatttatgg 420
caatgcaatc aagaagcaga ttactattt gctg 454

<210> 27750

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E2

<400> 27750

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acgttgatct cccgtgggac gctccagatt aggaaatagt gtaccattc gtggagctcc 120
cgggaaccgt ctgatggcgg ttgatcagat aggattagat gttgggtact gtttcatctg 180
atgggattgt gaccgtggat ccacgggcgg acgggcccga tgcgatctgg ttgtaattaa 240
agccgaacaa tagatcctta atcctgtggt cgtcattgtg c 281

<210> 27751
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E3

<400> 27751

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tactccatcc tctggaaccc caagcacgtc atcttcatgg tggacgacat gcccatcagg 180
gacttccgca acctggagag caaggggggtg gcgttcccca agagccagcc gatgcggctc 240
tactccagcc tgtggaacgc ggacgactgg gcgacgcagg gcggggcgct caagacggac 300
tggteccacg ccccttctc cgctcctac cgcggttca aggccgacgc ttgcgtcgcc 360
gtcgcggggc gccggaccg ctgcggcgcc accgtcggca ccgagggcac cggcgcccc 420
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<210> 27752
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E4

<400> 27752

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ggagtttgag gaggagctg gaatgactaa attatggttg atgcagtaca gatataat 120
gagcttgaag aaaaatggcg ggcttagtct tgcactacaa gaagacagag tgaaagaaaa 180
ggggaggcac ttcttaagg accaatttt 209
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<210> 27753
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E5

<400> 27753

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gccgccgcgc gagcttgggt tagtgtctct tcttcgcgga gacctgtgag gagagccatc 120
atcatggccg ctgttgagac tgttgctctc aaggttgcta tgtcatgcga gggctgcgcc 180
ggggcgggtca gaagagtgtc ctggaagatg gaaggggttg aaaccttcga catagacctc 240
aaggagcaga aggtgacagt caaaggcaat gtcaagcctg aggacgtctt ccagacggtt 300
tccaagtcgg ggaagaggac ctctactgag gagggggaag ccacagcccc ggacgtgcgc 360
gcggctccag aagccgaagc agctcccagc accgcggcag aagcgcttc tgctgctgct 420
ccggcggcgc cagagatcac cccagccaaa gctg 454

<210> 27754
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-E7
<400> 27754

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tgagaacttc tcaaagtggc tcggcgtgac tcagtgcgcg gcaagggtag ttaagttctg 180
agtagctcag cttatgttga gaggaagag aatccatcaa tctgttttat cctgcatcat 240
cataacaagt tgctacaagt cttgcatggt cgagttgggt gtgc 284

<210> 27755
<211> 226
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-031-Q1-K1-F1
<400> 27755

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ccgcgcgccc tttgggcttg gtcggccggc cggccacgcc ttgttccgcg gcgcgccata 180
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<210> 27756
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-B5

 <400> 27756

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 caggacgtcg tgcacaacga caagtgcac tacctcgtct tcgagtacct cgacctcgac 180
 ctcaagaagc acatggactc ctccacggac ttcaagaacc accgcatagt caaatccttc 240
 ctctaccaga ttctgcgggg catcgcttac tgccactcgc accgcgtgct ccaccgcgac 300
 ctgaagccgc agaacctgct gattgaccgn cgcaacaacc tcttgaagct cgcggacttt 360
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<210> 27757
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-B7

 <400> 27757

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 atcgtaacat ctcgatcgca gtatccagag cgaggcgagg acaacatggc gcacattgga 120
 aggtggtgga gaccatatac cccgacgtgc ttattgtcca ctgacggcaa gtcaagaccg 180
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<210> 27758
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-B8

 <400> 27758

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 ttggcgacta aggcggcccc caagtctgcc cctgcgaccg gcggagttaa gaagccccac 180
 cgcttccgcc ccggtaccgt cgcgctccgg gagatccgca agtaccagaa gagcacagag 240
 ctgctgatcc gcaagctgcc gttccagcgc ctggcgcggg agatcgcgca ggacttcaag 300
 accgacctac gttccagag ctccgctgtc tccgcgctgc angaggcggc tgaggcctac 360
 cttgtcggtc ttttcgagga caccaacctc tgcgccatcc acgccaagcg cgtcaccatc 420
 atgccaagg ac 432

<210> 27759
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-B9
 <400> 27759

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 gtccgcctaa ttcaggagat gtgatgtgta gcaaatagcg cgcgcgcacc agtcgtcaat 180
 aaataaataa atgaataaat aaataaataa ataaaggcca acgtacgacg acaaattagt 240
 ggcgcgcgcg gtagtagcta gcagagtatg cgccgtcact gtgtcgatct gcagtttggt 300
 cgtttaatag tgattgtagt gtgtactatg tctagcttga tgatctcgga gtcggtatat 360
 acgctcgctc ccgtgctgga cgggt 385

<210> 27760
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-031-Q1-K1-C1
 <400> 27760

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 gtagtgctag atcgoga 77

<210> 27761
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C10

<400> 27761

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gtgagggcgg cggaggtaga ggcaaaggga tgacgcgcgg gaagcagaag atcgacgcgc 180
agcggcgtaa cgcggagcga aaccagaaat ccaaggggtc tcagctcgag gcccgcgccg 240
tcggcctcaa gatcgtctgc tccatctgca aggtacaatt ggcaaataaa aaacagctga 300
ccgatcacta tggatcaaag catccaaagg agaaacctcc gagcacatcg agcaccgaat 360
aaccatggct ggtcgtgacg cagaaatata gatccttggc tggtttgagg atctttaagt 420
gcgtctgacg catgccttgg acctcaacgt caagtatata ctctct 466

<210> 27762
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C11

<400> 27762

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catgttatcg attaagtcca catgctatac atcgagtgtc tctccttgct gaaccgcgcg 180
ttgtaaaacg acatggcgcc gatcttagca atcgcaacga accgagggat cacgtctatc 240
cgcgggacaa actaccgctc gccgcatggg atcccgccag acttccttga ccggctactg 300
attatcacga cgcataattta cacggaggat gagatccgga agatcctgga tatccggtgc 360
gacgaggatg acgtgga 377

<210> 27763
<211> 400

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C12

<400> 27763

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ctgttcacgc atgaagtcca catgctagac atcgagtgcg tctccttccg gaaccgcgcg   180
ttggaaaacg acatggcgcc gatcttagta atcgcaacga accgagggat cacgtctatc  240
cgcgggacaa actaccgctc gccgcatggg atcccgccag acttccttga ccggtctactg  300
attatcacga cgcattccta cacggaggat gagatccgga agatcctgga tatccgggtgc  360
gacgaggaag acgtggagat gtccgctgat gccaagggttc                        400
  
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<210> 27764
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C2

<400> 27764

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ggcggctagc gcctacgcaa gctgcacgcg atcgacgaca ctaaacttga ggtgaaaggc  120
ctgggtggact ccggagttaa atccatactg ttcatcttac aacaccacc ggaagccctg  180
agcgaaataa t                                                         191
  
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<210> 27765
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C3

<400> 27765

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tcgctctgtc ctgcaacaat ggccgctcgc tctcctccc agcagctggg cgcggcggcg  120
gtcctggcag cggcgctgct gctgctggcg gcgaggcccg ggacggcgct ggcggcgggtg  180
  
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agctgcggcg aggtgacgtc gtcggtggcg cctgcctcgg ggtacgcgat gggcagcgcg 240
 gcgtcgccct ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg 300
 gcggcggacc ggcaggccac ctgcaactgc ctcaagagca tgacggggccg gctcggcggc 360
 ggcgtcagca tggccaacgc cggcaacatc cccggcaagt gcg 403

<210> 27766
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C5

<400> 27766

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 ggttcgtgag gttctccggg gttcggatac atgggtgagc ggatcgagat ggctgcgacg 120
 gatgttgagt accgctgctt cgtctgcggt ctgctctggg ccacggacga ccactccctt 180
 cacaacggct tcagcaccta cggcgaggtc ctagagtcca agattatcct cgatcggtag 240
 acgcataggg tcctcggatt cagcttcgtc accttcttca ctg 283

<210> 27767
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-031-Q1-K1-C6

<400> 27767

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 tcaacacctt ctactccaac aaggagatct tcctcaggga gctcatctnc aactcctncg 180
 atgccttgga caagatcaag tttgagagtt tgacggacaa gaccaagctg gatgcacagc 240
 cagagctgtt catccacatt gtccccgaca aggccaacaa cacgctgaca atcatcgaca 300
 gcggcattgg tatgaccaag tcagaccttg tgaacaacct tggtagcatt gcgcggtcag 360
 gcacgaagga attcatggag gcacttgctg ctggtgctga tgtgtccatg attggccagt 420

tnggtgtcgg tttctactc

439

<210> 27768

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-C7

<400> 27768

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ggcaaaacaa ggaggaggga tctgaagggtg attcagaaga tgacttgccc cctctcgaga 120

agaatatgaa ccacctgaac ctgaagaag acgaagaaag cgaggaagag agtgaaagcg 180

agtaaaattg tgggtctgaaa gtgctgccat ggtaactnta cgactgtttt acaagtgaat 240

ttcagttgcc ttgcctgcta cgaagcaacc gttgtatgtg cttcagtgtc taatagccag 300

aataagcttc aatggccttt tcgtccagat gttgaatgca tgggttcggaa aagaaattct 360

tgtacgccct gtaatagtgt gtacctatag cactagcttt gaagattaat gatgagttga 420

acacattgag atcatttttc tttctaggag aatacaca 458

<210> 27769

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C8

<400> 27769

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ggtgccagag acttgtgttc taaacacaac gttttgatga ttgctgatga gatccaaact 120

ggcatagcta gaactggtaa aatgctggca tgtgactggg aaaacatacg gcctgacatg 180

gtgattctag gcaaagcact cgggtgctgga gttgttccag tcagtgcagt tcttgacagac 240

aagggtgtca tgctgtgtat cagaccaagg gaacatggaa gtacattcgg tgggaatccg 300

ttagctagcg ctgtggcagt tgcactactg aaagtgggtca gagacgaagg tctttgtgaa 360

agggctgcaa agttaggaca ggagtttagg gaccagttac agaagggtcca gcagatattc 420

cctcaaatcc taagagaagt gctgcggaag ggttt 455

<210> 27770
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-C9

 <400> 27770

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 gacttgctcg agaacttgga gattttttgc ttgtggggat tcacacagat cagaccataa 180
 gtgcaacacg aggacggcat cgcccaatca tgaatctcca tgagcgaagt ttgagtgttt 240
 tggcttgtcg ttatgttgat gaggtgatca ttggtgctcc atgggatggt tcaaaagaca 300
 tgattaccac gttcaatata tcttttagtcg ttcatggaac aattgctgag aacatggact 360
 tcacaaaaga cgatttacac ccatatgctt gttcaatggc tatgggca 408

<210> 27771
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-D1

 <400> 27771

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 tactcgcccc cgctctacag acaattacc tctgatcct ctcaagaagac gccgaaaccg 180
 cgtaatctac tgaaagctac tacaatttga ctctcaaagt gctgccatcg ccactttaca 240
 actatcttcc cagogaattc tacctcccct gcctgctaca a 281

<210> 27772
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-031-Q1-K1-D10

 <400> 27772

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agccgggaat ggagaagtat gcacgggtgc caccagcctg ggcatacaga cctggagtggt 180
gcatgctgtc ctgctcctcg tgaaccccat gatgcaagac gtggacatta caaaaatgct 240
tgggtgctta tagtcttctt cctgtatagg ggtccatctt tgtgctgtaa tgtgtcaagc 300
atcgcatgct attttttttc ccggtgatgc cagtgtgtaa gaaccatgtc gttgcaggaa 360
tagtgaagca gtgggacctg gtattgtgac tacctagtat cccgtacgga gatggaa 417

<210> 27773

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B4

<400> 27773

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cagtcccagc atacttctcc atcacaatct tattcctctc cctcgtatca ggcaacaaca 180
gattaccctt cttctgattt tcacaaacca tcccccaatt attcaactcc cggctacaca 240
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tacacaagga cagatcgccc ttccaatgac ggctacaatc cttacagcaa ttggtaacca 360
gatgtttcgg cttaccctta agcatatcaa cccccaccct acacatttga ccctcagcac 420
aactcttaaa actactac 438

<210> 27774

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H7

<400> 27774

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gtagcctctg tcccccttcc cagagattat ttctgcaaag cagttgtttg agaaccactg 180
aaccgctgct cgctatccac agctagggtta cgagatccgt tcgacaactg tccatgagaa 240
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tgtgaaatat cagcatccta gcatacatct ctacatgatg gacctgaagg caccattgat 360
ccctgagggtt gaggctgccg acaatgggaa ctacgaagaa gaggttgaag ttgctgtgaa 420
tcaagaggaa gacgaagatc ct 442

<210> 27775

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H9

<400> 27775

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gaagataagg acttatatga gcaggggaag aaagccttgc aggagaacat acgtcaacag 180
catgctgcca gcaccgatac tcagaaactg gtggatacca acgatcaaga tcctgaggac 240
gacatatcag atgcattcgc caaggcccga cagttgaaga atactgagaa cagtgagaca 300
acccccaaaa ctgaggggtgg ctcagctgaa aaggggaccg ctgtcaccgg caaaggtgat 360
tgaagtgcaa acctgaacac atggcctg 388

<210> 27776

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A10

<400> 27776

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tccctatttc cctgtaccgt gtttcatggg gacttgtgac aatggatggg ttctccttgt 180
gcgtcgccat ttacaagctt ttttgtatgt ttgtctgaat gaatgttctg gatgaacgga 240

gtttcagcgc agtaaacaat tcacataacc tagctgatgt gttttccggt ttaaaaaatg 300
cctttttcaa aatttgggtca attagct 327

<210> 27777
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A11

<400> 27777

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cgcgggcgcg gtcctggcag cggcgctgct gctgctggcg gcggggggcg ggacggcgctc 180
ggcgggcggtg agctgcggcg aggtgacgtc gtcgggtggcg ccgtgcctcg ggtacgcgat 240
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<210> 27778
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A3

<400> 27778

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cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180
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cttaacagcc gcgcgtcgtc ggcggcgga cggcaggcca cctgcaactg cctcaagagc 360
atgacggggc ggctcggccg cggcgtcagc at 392

<210> 27779
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A4

<400> 27779

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gtggtgtaat aatgaattct gagattgatt atttgctga tccaaatgac catgttgcct 180
ggctgaagtt ggagctattc ctactcataa aggatagaag atcagctggt cttatatctg 240
atgaactata aacactactt attgaaa 267

<210> 27780

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A5

<400> 27780

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gtcctcctcg cagtcagcca tggcccgcctc ctctcgcag tcgcagtcct ccgtcgggtg 120
cggcggcggc ggccggcggtg gcgcgcgcctc aggcaccgcy ggcccgcgcc agcctgacag 180
ttaaccacc tgaacgtgca caacacggaa tgaaacaggc gtctgaaact ttgactgtcg 240
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cgggtgttgg atcagtgcct gctactgaaa tctgtggagc a 341

<210> 27781

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A6

<400> 27781

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gacttccaga tcggctctcc actggatttg cagttgcaga tcttgatttg tcaaaagttg 120
aggctgtgag aactcgaatg ccaatttcag agcaccggaa gttcgacagc gattggaaac 180
ccacgcctct ttagtagctg agggtttatt ttgtgtttcc tatgtttaat gtgcgtatac 240

acatatagtt gatatatattca tctatgcata attattacc

279

<210> 27782

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A7

<400> 27782

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acttctttcca agaacacatc gccatgagct ttatataggag tcgtctgttg aaggacccca 120
ttgtgggctt ttccctgttg gagcaccatc aacaagcaca acaactactg gcctgaaatg 180
gaatctaagt gaatcaaaga tgagatttgg gagcatgata agcacatcca acattgtgca 240
gtcggagaaa gtaactgtag aatctgatgc agatctcttg tggacaattt ctctgcgaaa 300
tctgacataa gcagttccta gtttgttatc tttttcttct tctttctctgt caagtggcaa 360
ccaagctctt gtacagccac ttttgtgttt atgagttgtg tgtctggtaa ataaatacca 420
tctgatgaca aatcgatgag gtctcatcat tagacaggat g 461

<210> 27783

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-A8

<400> 27783

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tganggacaa gaggggtgagg ctatagctga ggaacaaaag aagagtaacc atgtgcagag 120
gaagattgag aagcgacagc aggaccgtgc actcgacact catattgaag agcaatttgg 180
cagtgggaga ttgttggcct gcatttctgc ccgtcctggg cagtgtggcc gagctgatgg 240
ctacatcctt gagggtaaag agctcgagtt ctacatgaag aagctccaga ggaagaaggg 300
caagggtgtt gcattcttaga gcattctttt agctagaact gcaaaatata ttctacttgg 360
gggattttgt tgtagtctt tatgcatatc atttgccggac ctgatgaaca cttcataagt 420

gaatcaactc tcgattctaa gaattgataa ttttcacatg cgg 463

<210> 27784
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A9

<400> 27784

cccacgcgtc cgaccacgcg tccggccaaa tggtatataa gatacataaa tggtagatgg 60

agatcatctg taagaatt 78

<210> 27785
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B1

<400> 27785

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ggcgggtggc gcctcctgga cttaaagggg cactacgcct tttacggcgc ctaccacagc 180

aaccccgta acgtgggcat ccacgagctc ttcaagtggc ccatcttctt gaccgcgctc 240

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gcgggtctact acttgctcct tga 323

<210> 27786
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B10

<400> 27786

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cgtcgatggc gcgggtgggt gcggtgctgg cgctggccgc ggccacggcc atcgccgtgg 120

cgtccgtggc gggcggcgac atgagcgcgg acaagacgga gtgcgcggac cagctggtgg 180

gcctggcgcc gtgcctgcag tacgtgcagg ggcaggcccg cgcgccgccc cccgactgct 240
 gcggcgccct gcgccagggt ctggggaaga gcccgaagt cctgtgcgtg ctcgtaagg 300
 acaaggacga cccaacctg ggcatcaaga tcaacgccac cctcgcgctc gcgtcccca 360
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<210> 27787

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B11

<400> 27787

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 ctctgtctct caacaatggc cgctcgtctc tctctccagc agctggctgc ggcgggcggtc 180
 ctggcagcgg cgctgctgct gctggcgggc ggggcccggg cggcgtcggc ggcggtgagc 240
 tgccggcgagg tgacgtcgtc ggtggcgccg tgccctcgggt acgcgatggg cagcgcggcg 300
 tcgccctccg cggcgtgctg cagcgggggt cgctcgtcga acagccgcgc gtcgtcggcg 360
 gcggaccggc aggccacctg caactgcctt aagagcatga 400

<210> 27788

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-B12

<400> 27788

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 acttgctgtt gcagctacgt cagcaatgga ttgtacatta tgtaaagaaa atcatttgag 180
 catggaggaa ctccggatga tacatgttgc aaaatggagg acactctttc aacataacag 240
 attgcgccat tgggggtgtta ggagaagtcc taagattcag ttgtttcttg agctaaggct 300
 acaaaagccc tctacgccta tagcttctga tagtatgtca actccaacaa aagaacagtc 360

atccctagag agcacaggaa accttgatat caccaaactt ctggatgaac tngaaatacc 420
atctcgggttc tagaatagca catcgtcttc a 451

<210> 27789
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B2

<400> 27789

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gcgacaagta ctgcatttag aacgcgctgg agtttgctga cggctagatc aaagaggcag 180
atgtt 185

<210> 27790
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B3

<400> 27790

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tgctgttgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc ccgtgggtgt 120
caaagtcttc tgggttatct ctttgaagc cgtgagcccc ccaaaccaac agtggcacca 180
gcttcaagtg cttcacctgt tgagaaacca tttgcttcaa agactgattc cggccaacaa 240
gttgcttctt gggttaccag gccaaccaat tacttccaca aggcttattg tcagaacact 300
tgcaactttc t 311

<210> 27791
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H6

<400> 27791

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gaaaaaaata ataaaaataaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa 120
aaaattaaaa gtttatatgg acgtgcattt tgagctatct aagattgaaa tcagttcctt 180
aaaagctata actgtattat tagatgactt aattcaattt gaatgttcgt cttttcaaaa 240
cgataatgat tgaaaaaacc gtgcagttac cgaagttaat cacctttgat 290

<210> 27792

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G12

<400> 27792

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agctgaagga gatctttgcc acgggtatcg tgcttggaag ctacctcgct ctgatgactg 120
tcattttctt ctgggctatg cacaagaccg acttcttctc ggacaaattc ggtgtgaggt 180
cgatcagggg cagcgagcat gagatgatgt ccgcgctgta cctccaagtg agtatcgtga 240
gccaggctct gatcttcgct acccgggtccc ggagctgggc ctctcgaggag cgccctggcc 300
tgctcctggg caccgggtat ctgcttcgcc agcttgctgc gaccttctc gctgtcta 358

<210> 27793

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G2

<400> 27793

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acgaacacgc gtacgaccac gcgtgcacga tgatcctgta tctgttataa atatcattat 120
tattaaaaaa ataaaaaaac atgaaaataa aattacataa aaaaaattgg acaaa 175

<210> 27794

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G3

<400> 27794

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agccgggacg gagagtcaac agtcagctgc caggagatct ccaagatgcc cagccttgcg 120
ttcaccatcg caaacaagac cttcacccta acacccgagc agtacattgt gaagctggag 180
caaggaggcc aaaccgtctg catcagtggg ttcattggcg atgacgtgcc accgccgcgt 240
ggtcctctct ggattcttgg ggacgtcttc atgggagctt accacacggt gttcgacttc 300
ggcaacgaca ggattggctt cgcggaatct gcatgagtgt ggagagcact ctcatcttta 360
taaagacgat accctatgta ttagggatgt gtaagttatt gtctatccac tacatgccaa 420
cagtacgct 429

<210> 27795

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G4

<400> 27795

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cggcggggac ccagtcgaga acacgaaggc gatggcgaca gcgctgaacc gcgggctccg 120
ctccgggctc cgctctctcg ccgccggcgc cgaggcgctc aagccagctt ctctgtggatt 180
ccatgccacc gtcgtgaaga gaatgggagg gcatggccat gatgagccat actacatcca 240
tgccaagcac atgtataact tgcacaggat gaagcatcag ggtttgaagg tgacactctc 300
cgtgctggga gcggttggca tcggcgttgg agtccctgtg tatgcagtca tattccagca 360
gaagaagact gcctctggct gagatgatgc ctc 393

<210> 27796

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G5

<400> 27796

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 ggggtcatgcg gtatatcaca aaggagatcg agattgttgc ggaccctatc catgaacacc 120
 tcggagaggg cataaggctg ggtgaggtgt gtccttcgat aggcaaaaat aatcacgtgc 180
 cttgtttatt attgttcttt tctgttcgtt ttttcatttg cttctgcaag ttctagctct 240
 agatcatacc tgtaaaatat gcagaggtct tttgcggtg atattcttat atcgtttttg 300
 ttagtcgcgc tgtactgtac cgtgtgatga ttatggagct gctttgtaag ccgtttttaa 360
 cctg 364

<210> 27797
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-G6
 <400> 27797

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 gtggtgtgca cggcagctct gtgacttgtg aggaggaagg gaggaagaaa gcggatccat 120
 ggcgtaaaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg 180
 cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc 240
 agatagccca tacgctgggtg gcgtattttt ggtcactatt cactttccac cggactaccc 300
 attcaaacca ccgaagggtg cattcaagac gaagggtttac caccgaata tcaacagcaa 360
 cgggagcatc tgtcttgata tcttgaagga gcaatggagc cctgcactga ca 412

<210> 27798
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-G7
 <400> 27798

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 aggacaccaa cgatcgctcat cgtctgggtc attctgctgg cttcaatctt ctcgctcctt 120
 cgggttcgga ttgatccttt ccttgccaag gatgatggtc cgcttcttga ggagtgtggg 180

ttggattgca actaggatgt cagtgcacatca gctccccgcaa tctgtgcatat gcttgaagta 240
 ctatttttcag gtgtttgtac ccatattcag tgtctgtcga taagagacat gaaatgtgcc 300
 acgtctctat tgatccatgg tgaacctact taatatctga gagacatact gggggataat 360
 ggcggtgcc gcaatccttg tgcagttggg cctgtgaata cagcatatgc aagtgttga 420
 ctgtgcagca ttcattatta 440

<210> 27799

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G8

<400> 27799

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 tgtgtgtgag gcacaggagg atacagagga ccagccttca gagaaggatg cacctgttgc 120
 atgggaagag gatgagaata atgtaggttg gatgcctgct gttagccgca gcacacacag 180
 aagatatttg cggaggaagg caaggcgtga tgccctcaaa gaatctggac aaagttttga 240
 gacgagttct gttgctgcat caattgatag cgataaagtt ctctctgaaa atggagggtt 300
 ggagcatggt ctgacttcaa caggtggcct ctctctgtgc cctgagaaaa tcagtgcgaag 360
 ttctgatggt cttgaacttc aagcagatgc tgaccctgaa attgctggag aacagttgca 420
 ttctgacc 428

<210> 27800

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G9

<400> 27800

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 tgctggtgga tttgcgtccg ggccccgaac cgatcgagtc ttttgcgatg gcagcagcgg 120
 ctagtctcca aggggcccgg cgatcagctg ggagacttcg tcaggccgcg tcactggccg 180
 gcaaggccag cactaccgga ggaggccgt gcacgcctcg tcgtacgaca cgaaccgga 240

ggagcaggtg cgccccggcgt tcgtgccgga cgatgtgatc agcagtgcag ggagccccga 300
 caagtactgg agccccacagc ccaagaccgg cgtgttctgg ccggcgggtg tggacaccaa 360
 ccagctgggc g 371

<210> 27801
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-H10
 <400> 27801

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 agtgtaccag gaaagaacgt gtcttgggta ctgctcttcg cagaagttgg aagaatattg 120
 ggaaaatgaa aatgtatctt ctctcaactc cagcagttta caggcgggaa aaaagagaaa 180
 gaaaagaaga ggcaggaaaa agcacaatcg tcgcaagaaa gctaatttac aggattctcc 240
 agcatcaact gctgctgata attctgggtt ggtgacgttt tctgagaact gtacttcac 300
 ccttaacta gaggaacaga tgaagaagca agatcaggac aagacatcca tgactaactt 360
 acttttaatc aacaatgcaa agagat 386

<210> 27802
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-H11
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 tcacaaacgc tagtcttcct ctaaagctcg gagcgagtct cagaagcgat ggcgtcaaag 120
 aggctgctgc tggcggcgct gtgcgtggtg gcggcgggcg tgctcgccgt gcggtcggag 180
 tcccacggcc tggaggactt cgcaagcagc gacgcgacgc cggagatgca gaccttcttc 240
 aagccccagg ccgcggcgct cccggaggcc ctggacgcgt cctccatgcc cgccgccacc 300
 atggccgcga agccggaggc cacgtcgatc ccgaccacca ccaccggcac cacgccggcg 360

gctgcagctg gcacctccgc cgcggcaggc actact 396

<210> 27803
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H12

<400> 27803

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ctcgccgagg cggacgagtt cgatgacaag atgaaggagc tggagagcct ttgcaacccc 120
atcatcgcca agatgtacca gggcgcgggg gccgacatgg gaggtccgg cggcatggac 180
gaggacgctc cggctggaag cgggtggcct ggccccaaga tcgaggaggt ggactaagcg 240
gtttgtgtca gtctcgtgtg tctgctgcag tggctggctg gcccgatcgc tgctcgattt 300
atcgtcgtcg tcgcggtgta tccgcgtag aaccctttgg tggatgaaca tattatcggg 360
gcacgcgttt taagtata 378

<210> 27804
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H2

<400> 27804

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cgaagcgcca ccggaaggtg ctccgcgata acatccatgg gatcacgaag ccggcgatcc 180
ggcggctggc gcgcaagggc ggcgtgaagc gcatctccgg gctcatctac gaggagagcc 240
gcggcgctct caagatcttc ctggagaacg tgatccgcga cgcgctcact tacaccgagc 300
acgctcgccg caccaccgtc acagccatgg acgtcgtcta cgcgctcaag cgccatggcc 360
gtaccc 366

<210> 27805
<211> 411
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H3

<400> 27805

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ttcatggaga aatcaacccc gacagtgaag cttgagattc agctttacaa aacgagggat 180
gagaagtacc ttcttgacct gcaaagggtc agtggatcac atcttctatt tctggactcg 240
tgttccgcct ttctaactca tctgaaagtt ctttgagcct gacatgattg gcttcccaag 300
cactccttga tgcacccagt ggagtttcaa gttacatttg agatgcacat aatgaccata 360
tataatcctc caatagatta tattttctgg agcatgtaat gtagacgtta g 411

<210> 27806

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H4

<400> 27806

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cgagatcaac ctgttcgtgc tcatgcaccc cgctggcaag tactagcagc acacaccttg 180
atactcgagc gagtggctac taccgcattg tagatggaca aagtcttgtc gaagtgacta 240
tgtgcaatcc aactctttca gatgtattac tcttggtgaa acccaatgaa catgcaattt 300
atctgtcctc tgagcacaaa tgtaagccat tagcttggcc ttacccgctc ataaagacca 360
tatat 365

<210> 27807

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H5

<400> 27807

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 cttcgtgggtt tatatgcacg tgcaaaggag ctctctgaga atgaaatcag tgcttcaaat 180
 gctttgattg gattattaga tggtttgttg caatctggag cttcaactgc aaaaaagaaa 240
 aagatagaag ttggtgagca gaaaaagaag aggatcaagt ctgatacaga ttctgcacga 300
 ttttctgctg catctatgag gaatcaactt gaccaagctg caagccttaa aggagagcag 360
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 catttcgata aggaaa 436

<210> 27808
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-G11
 <400> 27808

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 tcctaggggg aagaaacagg aggggggaaaa agaagcccag aaagaccaac tgaccaaaca 180
 aaaaggtggc atctttgtgt ca'c'gaggca cgcgcgatca cagaccaaag tccgctcctc 240
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 cttgtaaaga ttttagtttt ccccccttca actgttgcta gccttgagtc gctgagaagt 360
 ttcgagaagg gtggtgtgag tgtcggatag ctcaagatgg atccggtgtt gcttgacgac 420
 gtcatacgcc ggcttctgga agtgaagaat c 451

<210> 27809
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-E3
 <400> 27809

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 ggctcgatga cacagatgca ggacccgtca ttgttacgcc ttgagaatga gtcgtaccag 180
 ctgtgcctca gtatccttca gaacatatatt ctggacagct ctgctgatca ttgaagcaca 240
 gaggtggtgg aaagtcacct tattggcttg tgcaaggagg tccttgaagt atacttgttc 300
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 gttggttcat caatgcgaag ggaacttgcg gcaagatcac etc 403

<210> 27810
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E4

<400> 27810
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 aaacctgatg aactagcagt cagataaact gacgtgtcgg ctgctaaatg tgcaggcctg 240
 atgttgaact ggcacggaga tgattacagc ttatcagctc tgcacctgtg cccaatggca 300
 ggggctgcct ttcaagctat cgtctgatct ggaactgttc cacattatct aatccctgtt 360
 ggttcat 367

<210> 27811
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E5

<400> 27811
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 gcactccatc cactgactga ccgctcatgg cgaagggtcca cctctacgtc gccgcggcct 120
 gcgcgctcgt cctcgcgtc gccaccccg cctcgcggcgg tgaccccgac atgctgcagg 180
 acgtctgccc ggctgactac gcctccccgg tgaagctgaa cgggttcgcy tgcaaggcga 240

acttttcggc ggacgacttc ttcttcgacg ggctgaggaa cccgggcaac accaacaacc 300
 cggcgggctc cgtggtgacg ggggccaacg tggagaagtt cccgggctg aacacgctgg 360
 gcgctctccat ggcgcgcatc gactacgcgc cgggcgccca gaaccgctcg cacacgcacc 420
 cgcgcgccac cgagatca 438

<210> 27812
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-E6
 <400> 27812

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 acttttcggc ggacgacttc ttcttcaacg ggctgaggaa cccggacaac accaacaacc 300
 cggcgggctc cgaggtgact gcggccaacg tggagaagtt cccgggctg aacacactga 360
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<210> 27813
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-E7
 <400> 27813

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 catgtctgaa ttcaggcagg agtaccaggc gcagcacct agcaacaaga gcgttgcggc 180
 cgtgagcaag gcagcaagtg aaaagtggcg ctatatgtca gagcaagaga agcaacccta 240
 tgtggacca gctgggcaga agaagcagga ctatgagaag accaaggcaa atattgagaa 300
 ggagagcaca agctcaaaga aggctaacac tgatgacgac gatggctcga agtccgacgt 360

tgatgatgag gatggcggta gtgacgagga aaacgacgac gacgagtaaa tagtatctcc 420
gctgtcccga ggtaacaaat c 441

<210> 27814
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E8

<400> 27814

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gaaattcctc acggctgcat acttgctacc ttcattgctct cctcgatgct gggtagctca 120
attgcttctc gtttgtttagc taggaagctg aagggtgaag gttatatgca aatcgtgttt 180
tcagtatcag cctttactct tttcctcccc gttgtcacca atttcctagt acctccctcc 240
ggggagaaaag gcggcagcat ttcgttagga ggctgcttac agcttcttgg cttctgtacc 300
tttgagtcatt gtgttggcat attctggcca tcaatcatga agatgagatc tcaatatatt 360
cccaggagg caacacgcac aatcatgaat ttcttgcgta taccgctcaa cctgtttgtt 420
tgcttggtac tatac 435

<210> 27815
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F1

<400> 27815

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gttcttgcatt cagaggtaga gatccttggg aaaagtttat ctgagggttc agagaagaat 180
tctatcttgg atacctcatt atgtgatatg aaaactgagt tagatgaatt gagaacaaag 240
ctgaacgatt ctgaagaatc ctgccagact caccttacia ataattcagc tctttctgct 300
gaaaagaaca atctgttctc tcagctggag agcattacat tggccatgaa agcactagaa 360
ggtatgcaca ccaatctgga acagatgcac tcctctgtat caagagagaa ggatttttgc 420

tatgatcaag taagggaact g

441

<210> 27816

<211> 294

<212> DNA

<213> Zea mays

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<400> 27816

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gatttaaadc cgcacaccct atggtatctc ggcgcggctg ctatggcaag cggcagtcct 120
gacgaagggg aatgcgcgcc taccgccgga agtgaaccgg gtgctctacg tgcggaacct 180
gtcgtctaac atttcgtgcg acgagatgta ctacattttc ggcaagcaca gtgcgatcca 240
gtggatccgt ctgggcaacg ccaaggacac gcacaggacc gcttacgttg tcta 294

<210> 27817

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F2

<400> 27817

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cagcctgctg atggagctca tcacgacgag gtcggctgcc ttgcgctcta gtcctcgtc 180
gtcgccgtcg tcgctggcca gcgaaagcga cgacgcgaag aacggcagtg aggacgggac 240
caggtacatc gtcacgtatt ctgcaaccgg cggccttggc acgggcaccg tctgtaggct 300
tgagacagca tgcttgctgc tgacactact atgctcttac ttggcattgc aggtgacatt 360
gacaacactt ggcttggagt ggc 383

<210> 27818

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F5

<400> 27818

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gggtgttcacc ggcgagtga aggagtgcgc ccaactgcaag tcggaggaga gcaacatgtg 120
cgacctctc aggatcaacg tcgaccgcgg cgtgatgata ggcgacggta agtcccgctt 180
caccatcagc gggcagccca tcttcactt cgtcgggacg tccaccttca gcgagtacac 240
cgtcatccat gtcggctgcc tggccaagat caaccccgag gcgcctctcg acaaagtctg 300
catcctcagc tgtggtatct cgaccggcct tggcgcgaca ctgaatgtgg cgaaaccagc 360
caagggctcg acggtggcga ttttcgggct tggggctgta ggccttgctg ctatggaagg 420
tgctagactg ggctgtgcat c 441

<210> 27819

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F6

<400> 27819

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caacaatggc ttccctgaag gccgcgaagc ccagcggagt tgcggcgcaa ggcaaggagc 120
cggcgcccaa gctcagcgag acggcgacga agccgtcagc cgccaagagc ggcggcgtta 180
agaaggctga gcagaagccc cggaaccca aaaggaaggt gaagagcagc aaacaggcgg 240
cggcgcccaa aaagtgcgt acagtacgtg tggagtgtaa tggagcttcc atgcatgagt 300
gaatccatgc catgttatga atctagtcct tcctttcttg tatcttccat gtgacgcggc 360
gtgtgcgttc cctcatgtgt gatgatgcca gatgaatact acaaataaga cgttggtgtg 420
ac 422

<210> 27820

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F7

<400> 27820

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gcgacatcaa gttgttctcg gtgcagcgtc acggctcgcg ggcggacatt cggccctatg    180
gacccatcga gcgaccgagc ttgccctctg accgcgaccc caggtcagtc gggactaccc    240
gctgagtcta agcatataaa taagcggagg agaagaaact tacgaggatt cccctagtaa    300
cggcgagcga accgggagca gccagctcg agaatcgggc gtactcgtcg tccgaattgt    360
agtctggaga ggcgtcctca gcgacggacc gggcccaagt tctctggata gggacgcctg    420
tgatggtgag agccccgt                                     438

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<210>      27821
<211>      121
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-030-Q1-K1-G1

<400>      27821

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cccacgcgtc cgcccacgcg tccgccacg cgtccgcca cgcgccgcc cacgcgtccg    60
tgcacgcgtt cgcccacgcg tccgcgatga tcctgtctct gttataaata tcattattat    120
t                                                                 121

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<210>      27822
<211>      421
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-030-Q1-K1-G10

<400>      27822

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cagtgtctgga ctgccacacc tcccacattg ctgtcaagtt tgctgagctc attaccaaga    120
tcgacaggcg gtctggcaag gagcttgaga aggagccaaa gttcctgaag aacggtgatg    180
ctggtatggt gaagatgata ccgaccaagc ccatgggtgg ggagacgttc tcagcgtatc    240
ctcccccttg taggtttgct gtccgtgaca tgaggcagac ggttgctggt ggagttatca    300
agagtgtgga gaagaaggac ccgaccggcg ccaaggtgac caaggcggct gccaagaaga    360

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aatgatgcga tcctgcgcct gctttagcaa tacctagggt tcatcatcac aaagttttgt 420

t 421

<210> 27823

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E2

<400> 27823

agaggacagt tatcagcaca gaacacagta atcctcttcg aagccttgca cactgttgcc 60

gcacatgctc acaaaataaa cagtgatagt gatttgcggt ccaagttgca agagttgggc 120

tcgatgacac agatgcagga cccgccattg ttacgccttg agaatgagtc gtaccagctg 180

tgccctagta tccttcagaa catatttctg gacagctctc ctgatcatgg aagcacagag 240

gtggtggaga gtcaccttat tggcttgtgc aaggagggtc ttgaggtata cttgagcaca 300

gcaagacctt ctcagccttc cagtggcaca cagccgctag gccattggct tatccctgtt 360

ggttcacga agcgaatgga acttgccgca agagca 396

<210> 27824

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C6

<400> 27824

gccacgcgtc ctcccacgcg tgcgacctt gtatgttggt tatctaagtc atgtgctagc 60

gcgctgtgtc tgtcgtgaca cctggatcgt gagatggggt gtcaaacttg attgctttgt 120

tgagcttggc tggaacaact gatagttata tatttggatc gtactgtccc tgttgatatg 180

atctaaattc tgaacgcgtt gcaatctgag catccgtgca aagtatgaat gttccttcta 240

tgaatacacg agttcatgtc cgacgg 266

<210> 27825

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-030-Q1-K1-C8

<400> 27825

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agctcgccga aatggtcgcc cacagggttc atcagtacca ggtgggtgggt cgcgcgctgc 120
cgaccccaac cgatgagcac cccaagatct accgcatgaa gctctggggc accaacgagg 180
ttcgcgccaa gtccaagttc tggtacttcc tgagaaagct caagaagggtg aagaagagca 240
atggccagat gcttgccatc aacgagatct ttgagcgcaa cccgaccacc atcaagaact 300
atggcatctg gctgcgctac cagagcagga ctgggttacca caacatgtac aaggagtacc 360
gcgacaccac cctgaacggc gcagtggagc agatgtacaa cgagatggcc tnccgccacc 420
gcgtgaggtc cccctgcata ca 442

<210> 27826

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C9

<400> 27826

acaacatcta cctcaacttc gacgccttcc acggcgacaa ggcccacggc ggcgccaggt 60
gacggtaccg agatcgtgct ctggaagtgg tgcgagggcg acaaccagcg ctggaagatc 120
ctcccttggg gaacgaacga aagaaactac tagctggtac cctaataata attctgctgg 180
ctgcggcgat cccaaaataa aagaggccgg gtgcgatgca tctcggactt ctcgagtggg 240
gtttgcgtca gacagccagc cactgtgggg ctagtgttcc aacatttgct agcctgcttg 300
cgcgaggaag gggggtcact gactcaagag aagggcctgg tcataggctg ctgcattatg 360
aatttctgat gatgtcttat gtctgtactc tg 392

<210> 27827

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-D11

<400> 27827

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atcttgtaat attagaagac aaaagaacta tcaactcatt ctgaatotta ggactgagat 120
aatggtaatg aatttctttg ttctgaatac gctaagatg gtcttgcat accaaatcaa 180
actctgcaat catctcaaca caggctaaga aatttcatt actatcacta taaagctgct 240
caatgcttcc tctaaaagcc aagttgcgtt taccaagaaa tttcacaatt gctattattc 300
ttagcaaaac ttgtctcaaa cgttctttct ctttattgat ttgcttttgc aagtctttat 360
caatagtttc ctctttctgc attcgtgtcc tcaattcatt ccacttgntc atgttctgaa 420
aatgctcaac actattttca tggctcttag gctttgtact aatatttct cc 472

<210> 27828

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D12

<400> 27828

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gtgcccatgg acggtggctg gtcgaacggc ggcgccacct ggtacggccc agccaagggc 120
gctggatccg acggtggctg gtgtgggtac cagggtgccg tcgaccagcc tacgatctgg 180
tcaatgatca ccggcggcag ccaatccatc ttccaggacg gcaagggctg cggcacctgc 240
taccaggatga agtgcaccgg acacgcgtcg tgctccggca atccggtgac agtgggtcac 300
accgacctgt gccccggcgt tggatgccag gtggagcccg tgcactatga cctgagctgt 360
ac 362

<210> 27829

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D2

<400> 27829

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ggggtgactga tatttcatag agctcagaac tattcgtgaa aatggacatc gaatttgtag 120
 gaactgacga tgtacatatt aattctcagg cacacgtggt ttagtgacga tgaccaccct 180
 ggtagacta atctgcgtaa tacaaaaacg gagtcggtct atgtaattaa aggctctagt 240
 gcttgatgat caacataatt atttgaacta atatatttct ctagtgtgta tgtttatagt 300
 gtaaaggatg cggcgtggat ttggacgaaa gcaaattgggt gagcatgaag attaacacct 360
 caaagaaata cattagaaaa cttattgaag atctgtcaag atcatgcagg agtataaaac 420
 atgagacaat agaag 435

<210> 27830

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D3

<400> 27830

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 attgaaggaa gtggtggtta gcaagaagga ttttgaacag cagatggaga taattggtag 120
 ggttggccag catcaaaatg taattccatt gcgggcttac tattactcca aggatgagaa 180
 gttgttggtg tttgattatg tcccatctgg tagccttgct gctgttttgc atgggaataa 240
 agctgctgga agagctccat tgaactggga gacaagagtc aagatatctc tggacgtggc 300
 ccatggaatc gcccaccttc atgccgaggg aggaaggaag ttcattccacg gcaacatcaa 360
 agcatcgaac gtctctctat cgcagaacct cgacggctgc gtctccgagt tcggcctggc 420
 acagatcatg accacccac agac 444

<210> 27831

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D4

<400> 27831

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 gtaagcttca atcaggatca gcacaatcca gggccataaa gttcctaagc ccccaacagt 120

gaactattgc aggacgtttc tgttttgaaa tttggttggt ggttgaacta tgtctaattg 180
 ttttatcaat aatttggtgc tagttgttta caagtatgac ttagtaggtc caagtttatt 240
 gatttttgggt actgggtacct ccaagttttg ttgaacattg ttgcttcttg caagacgtat 300
 tgtgatct 308

<210> 27832
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-D5
 <400> 27832

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 ggaaatctgt ggtgcactgc atgctagcat tcaacctgct ggtgtggctg ttgctctgca 120
 gtgctggcac attcctttac cagaaaactt ggaatgcaaa actttggaag gttggattag 180
 aacttcacat tcatctcgtc ctggagtctt tgaagggtgaa agcagcactt tctggagtga 240
 cttcttggct cttgttaagc ttaggggcat agacgtggag gctaaggacc ataccgtttc 300
 tattccttgg tgccctttaa ggtctcatga gggtccactc tctaacgggc tctgcaagaa 360
 aaactcaact aatggcatgg tttctgctgt tacctcgatg ctcttatcac tcggagagga 420
 cccctcagg aaagagcttt 440

<210> 27833
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-D6
 <400> 27833

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 agtacaaaac taccagatat accattgggtc gtgttcaaata aacaaatgct tcggctttgt 120
 tcatccgtca ttaactatga gtgctgggat ttgtttgtat gtgtgtcgtg ctaccagttt 180
 cttctcctgt cgtctcacac aggtactgta ttaacgatgt gttttctagt gtccgtgcgg 240
 aagctgtatt ataagctgaa atatgtgcgt ttgaaattta ctagtt 286

<210> 27834
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D7

<400> 27834

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atcctaccat aatgtttgga ggaattgagg gctctcaagt ctgcactgtg gcctttcagc  180
gggtgtgact gaaagctgag gcacacatag ttcttggcct gacgtgtcac gttgggtcca  240
gaagaaatgg ataaaaaatt ttgtgcttcg cctgtgggac tggtcctacc gtattaagga  300
acagtccaaa ctgtgtcttc ttctgttgtt agctcatcta tccaggatgg tcgtgtaatt  360
ttagatggac cagactatga gacgaatcag tcctgtattg ttgtcacctg gaacatttcc  420
ttgtatttcc gttcctctta                                     440
  
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<210> 27835
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D8

<400> 27835

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tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc  120
tctctttctt cgccttcgcc gacgcatgcg gctgcagggt cggcggatcc tgccttagtc  180
caggcggcgg tggcgggtggc ggtggaggat ctggtgggtg tgggtgggtga agcgggtggg  240
gtgggagtgg aggggggtgga tcgggtggtg ggagtggagg cggaggatct ggtggaggcg  300
gaagtagagg tgg                                     313
  
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<210> 27836
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E1

<400> 27836

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gaccgagaag ttttcagctg ctgcaggcac tagaagcatc agctagtttt aaaatgtatt 120
gctcgtagca ggcagactga aactagctga tgctttacaa aattacaatt tgtattttccc 180
aacgtttttg gactttaggg gacgaaatta ccgatatggg ctttttcatt accacgaacg 240
agatcttggt agatctctca tactctttgc gcaaagtggg gtgacagata cacccccaga 300
taaaggtagt cagggcatat gaacctttat ggcttcaaca gctttccatt attccaaata 360
ttggaagaat tataatgaag gtataatatg gggtattaaa aatatacatg agtgcctga 420
cttaaatagt aataa 435

<210> 27837

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-C5

<400> 27837

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tgtaccgtcc attgttgcta tggtatatgt ggagacaaga actatcataa cttccttata 120
ttgcgtgcta ctctcttaca tctttcatgt ctacgatatt gtagtgnatg gtctgtattg 180
actgaatggg cgtaaact gtataaaagc tactatcctt acagcatgac ttcttgcatt 240
ctggatatctc tcgattggac tgctgacaca cactattgct atcttatacc aatcatctgc 300
aactatacca tttggcacia tggatgtcat gaatatgctc tgacctttca tgtacatcat 360
gctcgtcata ttggaaactg tagctgatct aaattaggaa tgcgc 405

<210> 27838

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E10

<400> 27838

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ttaaaggggtg gtgcaaagaa agctgtgata tctagaccat cagctaatac tcacatgata 120
ggagatgggtg ctaatgagaa tagctatcat ccatagatga atgttgctta taatgcaagt 180
tgcactaaca actgccttgc tccagttggc aatgatgaac atgacgaatt 230

<210> 27839

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E11

<400> 27839

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cccaaagtgc tcttggggagg atattgggtgg gctggagaat gtcaagaggg agctccagga 180
gactgttcaa tatcctgtgg aacatccaga gaagtctcag aagtttggca tgtctccatc 240
caaaggagtt ctgttttatg gtctcctcgg ttgtggtaaa accttgttgg cgaaggcaat 300
tgccaacgag tgccaggcta acttcatcag tgtcaagggt cctgaattgc ttaccatgtg 360
gtttggtgag agtgaaacca acgtccgcga aatttttga 399

<210> 27840

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B2

<400> 27840

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tacactgcgg acggacttcg ggcatggagg gccagttcca gggtggcaag gaggaggtca 120
tccaagcatg gtacatggac gacagtgaag aggaccagag gcttctctcat catcgcgagc 180
ccaaagaatt catccctctc gacaaacttt ccgaactagg aatattaagc tggcgcctaa 240
atgctgatga ttggggagaat gatgagaacc tcaagaaaat tcgtgaagcc aggggttact 300

cttacatgga catttgtgat gtgtgcccag agaagttgcc aaattacgag gctaagataa 360
agaatttctt tgaagaacac ttgcatactg atgaagagat acgatattgc cttgagggta 420
gcggtactt tgatgtgag 439

<210> 27841
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B3

<400> 27841

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tgcggtgtag cgccggggcc gggcagggcg ggggtcaaggc ccctgcgaag ctggcggagc 180
tgtggtcggc ggcgaagagc gcgccttccc tggcgcgtgct cgcgggtgtg gcggcggcgg 240
tggcgatata caaggtcggg tccagtctcc ttgcgcgcgc ccatcccccg cccgctcggc 300
tggaggccca gacggtcccg tcgtctccag tcccggagcc ggtgcagggt ggcgagataa 360
cggaggagga actacggcag tacgacgggt ccgaccccg gaaaccgctg ctgatggcca 420
tcaaggggca gatctatgac gt 442

<210> 27842
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B4

<400> 27842

cccacgcgtc cgcccacgcg tccgggtttc tggaaacagt aaaaacatgt gctagtgggt 60
cgaaagcaaa aggaacttgc atcgacaaat tgtgcatata agtgaaaaag ttaactgtat 120
actgtatata ttgctagata gggaatgtat ctgagctttt gagtaactta gctattagag 180
cattctgact tattatatga aagttgacat cactaacaac tgcctaacta gtaggctaata 240
aacatcataa ttgcttgtaa tttgcaggaa tataaaatct cttggaatta ccatttgaag 300
tataatatgg aaactgcttg ttttaattgt ttgtatttat gaagacctt tgtacatagt 360

taaatttgat ggagaaatga tgcactacag cactagtgtg atagactaat agtagcttac 420
tgccaaagca cca 433

<210> 27843
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B5

<400> 27843

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gcgcgcgcag gagccgtgct tctgccagta cgcgcgcaac ccggcgtaca gcagctacat 120
caacagcccc aacgcccgcg gcacgctcac ctctgcggc atcgccgtcc cgagctgcta 180
gggcgctagc tcgtgcctcg tgggtgtgggt gaataaaaag atgcatgtcg atctctgctt 240
actgttatcg tatctgtagt acctcgtgtg atatgaacaa tatgtattat ttaccaagag 300
cggttgtgtc 310

<210> 27844
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B6

<400> 27844

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gaagaatatg tagtggtggt cgcaacggac tcctgcggct ttgggatgca actacaagca 120
tctaggactg atagatgttc atgtgaaaag gcaattgacc atgatgttgc atgccatttt 180
ccttttagct aggaatttat gtgctattta gaggatgcga aaggagccgg actttgttct 240
actgtttctt tctcatctaa aaaaccctgc ccagttgagt atatgtttga cgtcgtgtaa 300
aattttgttt atattttcgg gttcagatag ccttacgtgg ctacgatttt gtgagaacta 360
tgagaaactt gggaagttct gtact 385

<210> 27845
<211> 438
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B7

<400> 27845

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ggaaggctag ggtagggtc ccagctcccc gttgcctggg cgagcctagt gatggccgcc 120
cctgccccct ccggctcatc tagtgccgac gcctcaccgt acccgctgat gcagctgccg 180
tcgccgttcg cggagctcgt caagggcccc tacggcctcg agaaggctcg gcttctcggc 240
tctcgcaact gctgagccga gatttatctg tatggaggtc aagtaacatc atggaagaat 300
gacaatgggg aagacttgct tttcctcatc agcaaggcta ttttcaaacc tgcaaaagct 360
attcgtggcg gtataccaat ctgctttccc caatttggat cacatggaaa tcttgaacaa 420
catggattcg ctaggaac 438

<210> 27846

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-B8

<400> 27846

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gtcttgctcc gatcacgagc tagctgaggt cgacgatggc ggctgtgctg aacagcagga 120
agacgccgca ggtgggtggc gtgctggtgg tgggtggcgt gctgggttcg tccgcgtcgg 180
cggcgatcac ctgcgggcag gtggggctcg cgctggcgcc gtgcatccct tacgcgacgg 240
ggagggccag cgcgctcccc tcgtcgtgct gcagcggcgt caagagcctc aacagcgcgg 300
cgcggaaccag cgcggaaccg caggcggcgt gccgctgcct caagagcctc gccaacagcg 360
tcaagagcgt caacatgggc accgtcgcca ccatccccgg caagtgcggc gtctncgtcg 420
gattcccat cagcatg 437

<210> 27847

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B9

<400> 27847

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gttaggtatc ctttaaggta tgttgtaatt cctctatgaa gaatagactt tagaacgttt 120
gattctatctt atattgaacc aactatagct tccttctaga tttcaggaaa ccattatctt 180
gtgccaaaca atacttgact ttatatagga tagaattggt gtttatgatg atacttaggt 240
aactgctgta cttgggtattc agtgtgtaat atttttgttg tgtggattaa tgttttaagt 300
gctttatgtc tcattagtgt taagcttagc tcctcctgct tcgtcgtagt agttatttaa 360
caataaggat ctctttaaa 379

<210> 27848

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C1

<400> 27848

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ctgtggagct ggagtgggta agggcttcca gcagggactt tacatgggca acggtgggtg 120
cgccaatggt gtgcacctg gctacaccaa gggatgatggc cttggcgctg agattgttgg 180
caccttcata ctagtctaca ccgtcttctc ggccaccgat gccaaagagga atgccaggga 240
ctcccatggt cctatccttg cccactgcc aattgggttc gcggtgttcc tgggtccacct 300
tgccaccatc cccattactg gcactggcat caaccagct aggagccttg gcgctgccat 360
catctacaac agggatcacg cctggaacga ccattggatc ttctgggtcg gcccttcat 420
tggcgc 426

<210> 27849

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C10

<400> 27849

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 aaaaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120
 aaaaaaaaaa aaaaaaaac aaataaaaaa aaaaaaaaga attaaaaaat aataaaaaaa 180
 aaataataaa taataaaaat atatcacact aaattaattt cattaacctt cgtattacaa 240
 tttaacatat tggaaaaa 258

<210> 27850
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-C11
 <400> 27850

cccacgcgtc cgcaagcttc caggatgact tggtagccag cacttcgtct tcgactggta 60
 ccgggtccaa gtatatcaac gtaacaaggc ggtttaatca cattgatgcg ctcgtgaggc 120
 tgaacggaat tactgcagag ggccaaggct ttaatgttga atcgtcagca gttgcttcag 180
 cccaactcc agatgagact gaagcacagg cccagttgc tgaggaggac gacgacgatg 240
 atgttgacct ttttggtgag gagaccgaat atgagaagaa cgctgctgaa gagcgtgctg 300
 caactgcaa agcttttggc atgaagatag aatcttgaa gtcacagtt ttacttgatg 360
 tgaagccatg ggacgatgag actgacat 388

<210> 27851
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-C3
 <400> 27851

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 tgcagaagaa tctacggcaa tcagcattgt cccggggctca tttgttttgg gcacgtggac 120
 ctgataacgc tggctattat aattcaagac cacatgaaac tggctttttt tgtgatggag 180
 gcgactatga cagctactat ggacgttttt tccttaactg gtactctgga gtcctcatgg 240
 atcatgtgga tcaggtgctg tcgcttgcta ctcttgcat tgcaggagca gaaatagttg 300

tgaaggttcc atctatctac tgggtggtaca ggactgcgag ccacgccgca gagctcacag 360
 cggggtttcta caacactacg aacagagacg gatactctcc agttttcaga atgctcaaga 420
 agcactctgt gatccttaa 439

<210> 27852
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-C4
 <400> 27852

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 ttgggagcat agggagcgtc atccggaaaa ggaaggaatg gtacctgtat gagcctgttg 120
 ttgatgtggt agctaatac gaagacggga aagaggaggc taataattct agcaggccga 180
 agaaaagagc cgacgaagag aaagctgcaa gccttcagtc ctttgaaca caagctgctg 240
 atagttctaa ccaaggaggg tttctcttgc caatcccagc agatgcctgc ctttgacatt 300
 cgtcgtagga tggcttcata atagctacat atttgtatgt aagcgggtgtg agagcgtgtt 360
 attcctgatg aaggctcgggtg ctgccctgtc acctagtctg acgacaccgc tccagtac 418

<210> 27853
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-B11
 <400> 27853

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 gtaccgcccc gtgaaacaag cgctccgacg cctcaaggaa tgcggagcga tgaggcggct 120
 ctcaggcact gacgtcgccg gtcagcgcca gctgcgcgga gaccgaacct ggcacgcaa 180
 gcacgtcgag gaccgggtcga ctcgtgcata cttgcttcct cttgctagtgt gtcgtacggg 240
 agtttgcact ttgcagatag ctagctagct agtagctagg ggatcaggca tgggtgaggg 300
 cgaggcgggtg gttaagggcg gtgtgctgta nggccgtac aagctcagtc gcgtgctggg 360

tcac

364

<210> 27854
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H6

<400> 27854

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gcggcgcggc gcaccacccg cgcttgcgca ccgcgctcgc cgtctcctcc gacctgctcg 120
ctgggaacaa ggccgcgag gccgcccgc cgcattccggc ggttaccggg gaagaggcac 180
tgagagctgta tgaggacatg gttcttggcc gtgtattcga ggacatgtgt gcacaaatgt 240
actaccgtgg caagatgttt ggtttcgtcc acctttacaa tggccaggag gctgtctcca 300
ctggcttcat caaacttctg aaccaggctg actgtgttgt tagcacatac cgtgatcatg 360
tccatgcgct gtccaagggc gtcccggcac gttctgtcat ggctgagctc tttggcaagg 420
ccacaggctg ctgccgtgga cagggtg 447

<210> 27855
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H7

<400> 27855

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gtgactggga gcccaatgcc tgtgcaatcc agcacacaca gcaacatgta atccgtgttg 120
ttgcaactga ttcacgagat gaatgaacat cccgaagcac ccaagtcagc cagttgtcca 180
acceggcttg ttctgcaact tgctgtagtt gtttatgtat cagagctacc ggtgccggtt 240
accgcagcag ccgtgctttt gtcggccctg atggtgcttg ttgcagtacc agttatcccc 300
taaggcaggt gacagaaact gcggaatagt tcttgtttgc attgacgtga cagcactgta 360
atcttaaaca tcgtaccata gtcctttcta tgacaaaggt gtgggtttctg atgtctgcag 420
taaattgatct ggacttgggg cgt 443

<210> 27856
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H8

<400> 27856

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gaacagggcc tccagatgct aacaatcttc aagagccatg aggctgagac aacaattgtg 120
gaagatttcg acttctatga gcagcgggag aaagccttgc aggagaacag acgtcaacag 180
catgctgtca gcaccgatac tcagaaactg gtggatacca aggctcaaga tcctgtggcc 240
gacatatcag atgcatttgc caaggccgtc cagttgaaga atactgagaa cagtgggaca 300
acccccaaaa ctgaggggtgc ttcagctgaa aagggatccg ctgccaccgc caaagttgaa 360
agaagtgcaa acctgaacac aagccctgtg gaggaagca ggtgattcgt tttccttcta 420
t 421

<210> 27857
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A1

<400> 27857

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ggagcatgat ctttcttgtg tggagctttt ggatgtgaag ttggatggta ttgttttaac 120
aaaacaaaaa gcggagaagg ccgttggttg ggctagaaac cactatctgt catcaacaac 180
tcttccttct atcaaagggtg acaggttaat cattccccgt gagagtctgg atatatcaat 240
cgagaggctg aaggaacagg gtataacagc taagaaatcc tctcaaaatc tgaaggtttt 300
ggctaaagat gagtatgagc gcaatttcat ttctgctggt gtgcctccga atgaaattgg 360
agtgaatttt gacgacatcg gtgcacttga agacgtgaag agaacattgg atgagcttgt 420
tacac 425

<210> 27858

<211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A10

 <400> 27858

 cccacgcgta cgaaaaaaaa aaaaccatat aaaagaaaaa agaaaacaaa aaagaaaaag 60
 gggaaaagaa aaaaaaaagg tagcat 86

<210> 27859
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A11

 <400> 27859

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 tcgccgtcac caccgcgaat ccagcaaacy caaaccccat ctcgccgccg ccgccgccgc 120
 cgccgcgatg tctcgccgct atgacagccg cactacgata ttctcgccgg aggggcgtct 180
 ctaccaggtg gagtacgca tggaggcgat cggcaacgcc gggtcagccc tcgggatacct 240
 agcggccgac ggcgtggtcc tcgtcggcga gaagaagggtg acctccaagc tccttcagac 300
 ctcgcgctcc gtcgagaaga tgtacaagat cgactcccac ctggcgtgcg ccgtggcccg 360
 gatcatgttc gacgcaacat tctgataaca ac 392

<210> 27860
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A12

 <400> 27860

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 ttggagtcca tttggctgca ggagctcatg atatacttat gaagacagaa catgctctta 120
 caactgttcc accaccttta gcctcatgtg aagcgaaacy aacaaaacac aacattagag 180
 ctaaccaacc tgaaagtgca caacaaggaa tgaaacaggc atatgaaagt ttgactgttg 240

gttttggaag gacagcctct gctctcattg gcaaccctat taaagtttat aaccgagggg 300
 cgggtgttgg atcagttcta gctactgcaa tctgtggagc accagctgct gcagtagctc 360
 cagtctcggc atctgctcgc gctttacatt atgc 394

<210> 27861
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-A2
 <400> 27861

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 ggtattttac gtaattgaat tgaacacttg atctctgatt agcacatgga tggaaacaca 120
 tgtctctgct ctacgtcaga tgatctccgg tgccaagaag aaggaactct tctttgggat 180
 gccttaccgc cagggcgacc agccagatcc gggcgcgggc accgtcgaga gcatcccgca 240
 caaccagta cacttctgga gcggcgaccc gaggcagccg aacggcgagg acatgggcaa 300
 cttctactcc gccgcgcgcg acccgctctt cttegcgcac cacggcaaca tcgaccgctt 360
 gtggtcggtc tggaacggcc ttctgtcccg cgtcagcgac ttcaccgacc ccagctggct 420
 ggacgccage ttntctttct acg 443

<210> 27862
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-030-Q1-K1-A3
 <400> 27862

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 ggcggttctg cgggtgcatg gcgtcgtgcc tcttggcgct ggtcctcatc gtggccttcg 180
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 tgcagctcgc caggcccatc tcgtgggagc acccgctcgt gacggcgctc gcgcaagtga 300
 cgctggccga ccgcaacccc aacgaccgcg tgggcatctt ctacaagcgc ctggacgtgt 360

tctgtcaccta ccgcgacgag gccgtgacgg tgcccgtgtc tctgccgccg cagtaccagg 420
gccacc 426

<210> 27863
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A6

<400> 27863

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gttcgtgaag accctgaccg gcaagactat caccctcgag gtggagtctt cagacaccat 120
cgacaacgtc aaggccaaga tccaggacaa ggagggcatt ccccagacc agcagcggct 180
catctttgct ggaaagcagc ttgaggacgg gcgcacgctt gccgactaca acatccagaa 240
ggagagcacc ctccacttgg tgctgctgct cagggggaggc atgcagatct tctgaagac 300
cctgaccggc aagactatca ccctcgaggt ggagtcttca gacaccatcg acaatgtcaa 360
ggccaagatc caggacaagg aaggca 386

<210> 27864
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-A7

<400> 27864

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ccatcgacaa cctcaaggcc aagatccatg acaatgatgg cattccccca caccagcatc 180
gtctcatctt tgctggaaag cagcttgatg acagtcgcac tcttacctac tacaacatcc 240
agaacgagag cacccttcac ttggtgctgc gcctcagacg atgcatgcac atcttactga 300
agaccctgac cggcaagact atcaccctcg aagtggatto ttcagacacc atcgacaatg 360
tcaatgccaa gatccaggac aaagagtgca tcccaccgta ccagcagcgt ttgatcttca 420
ctggcaatca gctggatgat g 441

<210> 27865
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-A8

 <400> 27865

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 gctgctcact tctggcttta gcctcgacga tcccaacacc ttggcagcc gcatccaccg 180
 catgctcaag ctgggcctga gcatcgacga ggacgaggag gctccggagg ctgacaccga 240
 catgccccct ctggaggatg acgctggcga gagcaagatg gaggaggctg actaagctgg 300
 gtttattctt atggaggaaa gagagagaac atcgggtctg ttctgtgggt cttaccactt 360
 atgctattat gcaatctgtt gttggtatgc tagtgctact attgtctctg ctgtcttcta 420
 gttaat 426

<210> 27866
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-030-Q1-K1-A9

 <400> 27866

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 gacgatggcg tccggctggg gcatcaacgg gaacaagggc cgctgctacg acttctggct 120
 ggagttcagc gagtgcata gccgctgccg ccagccctcc gactgcggcc tcctccgcga 180
 ggactacctc gagtgcctcc accactccaa ggagttccag cgcaggaaca ggatctacaa 240
 ggaggagcaa cgtcagatca gagctgctgc tcgtaaggcc aaggaggaag ctgaggggtgc 300
 ccctgctgtt gcagcacacc attagtctac ctggctatct tntgcgttga tgttttctgt 360
 taactcatct ttgggtcaat tatgatggct agggc 395

<210> 27867

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-B1

 <400> 27867

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 gctcactgac aagatgagga gcagggacca caccgtttct gccactcatg gtgacatgga 180
 ccagaacact agagacatca tcatgaggga gttccgggtct ggctcctccc gtgtggtcat 240
 caccactgac ctgcttgctc gtggtattga tgttcagcag gtgtccctgg tcatcaacta 300
 tgatcttccc acccagccag agaactacct gcacgtatt ggtagtagtg gtcgttttgg 360
 taggaagggt gttgccatca actttgtgac ccgcgacgac gaacgtatgc tgtttgacat 420
 tcagaagttc tacaacgtgt tgatt 445

<210> 27868
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-030-Q1-K1-B10

 <400> 27868

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 gggggtgtct cagttgggtca taatgggtgc aatgggcaga atggaagtag cgctgtcccc 180
 aatattgcaa gaccaaactat agagagtatt aatggtagca tgagccaaaa tattgccgga 240
 ggtggcattg taagtgggag tgggagtggc aatgacatgt atcagaatcg gttcctgcaa 300
 cgagaagctg cattgaacaa attcagactg aagcggaaaag atcggaactt tggtaaaaag 360
 gttcgctacc aaagc 375

<210> 27869
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H5

<400> 27869

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catcaatggc ttagtttcat cctttgtttc acggctaagg gaagagaact cttctcgaga 120
gcataccatt ttaagaactg ctcaaaagct taagtcattc tcgtttaaca agttctcagc 180
aaacggctac catgatttcc tgccatcgcg gcttcgtccc aagtttcaga acattgatgc 240
caacgagtgt actttctctg agattctttg cctaatatgt ggaagcccg ttagtgaatc 300
agagctcctg aatttggaac acacaaagct caaggctcag aagaaaattg atctttatac 360
tgcccattgt tgtcaaagtt gccatttcca gattctccca gcagctacag atatgtatgg 420
acatttcttt tcgctactac cgaaattttg g 451

<210> 27870

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G2

<400> 27870

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tcaaaacact gattgtgtac gcttacgacg ctcaagcaca tgagatcaca tgaacactga 180
tacgaccttc tacatagacg ctactacga actatatgct caatatgtaa ctactgtgca 240
taattcaacg acacttgtag attaaagagt gacaatcaca cactgatact ctgcctctca 300
ttgctgcagt ctggcaggaa cataagggac ttcttaacta atatcaggtc tcgcattaaa 360
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<210> 27871

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G3

<400> 27871

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 tgcgcttacc ggtagggcgc gccttggtccg gtgaacgatg atgggtgtatt atgagagggga 180
 tttcttaagg ggttcacggt tggtgtgctt ggggttgcttt gatagaaaca ttggggagag 240
 gtttatcgcg cctgctctgc tctctcatgt aactccagat tgctgagctg gcacctgctc 300
 tgctctctca tgtaatgtaa ctccagattc ctgagctgct atgttttttt ttaaaaaaaaa 360
 aaataataaa aaaaaaacta aaaacaaaaa aaaaaacata ttac 404

<210> 27872
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-029-Q1-K1-G4

<400> 27872
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 ctgttattga tgatgactgg aatttggttg gcgttggtgc agattatgat ttattggcac 180
 tggatacaat atcaggagct ggaccggctg aagcagacat atttcctgag gtggatagca 240
 cttggaagac atttcatgag atacagaagc ttttgagcaa aaccaacggg aagggttattg 300
 ctgatgttat gaccccagcg cctctcgtgg tgcgtgaaac aactaacctt gaagatgctg 360
 caaggttact ccttgtgact aagtaccgca ggcttncagt ggtcgatagc tcaggcaaac 420
 tggttgggat cat 433

<210> 27873
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-G5

<400> 27873
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tatcctgcaa tttgtttctt gcaacttata agagtgattt tatttgatga gtcttagaaa 180
 aaaatacatt aaaagaaaac acacataata tcaaaagcat ataaaaataa tatagactac 240
 aattactacc actataagat cattacacaa catgtctgcc aaaatcatga cgtatatgac 300
 aaaaaatgtg gctctcgcta ttgatcacta acta 334

<210> 27874
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-G6
 <400> 27874

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 tctgtatgta tatatatgtt aaaattttat gaatataatc cagataaaga cttgctcaaa 180
 aaaaataaaa aaaagaaaa caaaaaaag caacaagaaa aagaaataat tctaagaaaa 240
 acaatgataa aacataaaat ggctacaaaa atcactgact ccctgccaa gttacatggct 300
 tgataacatt ttgtcaacgc gaatctgcat gaggatactt cacctagact tacctctgat 360
 tcagcagaca aaaactggta cactctgctt gactctcttt agttcgctaa c 411

<210> 27875
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-G7
 <400> 27875

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 tgtatgacat attctattta tttaaattttt ttgagtatga tctaaattaa ataattctat 180
 gaataacatt caatatactg ataacgtgaa aagcatgaag attacgtatt tattctcata 240
 tcatcatgta tatcttttaa atggttgcat aatttcta atctctgaaa ttacatgtat 300
 tctcaacatt ttcgctaacc gaatgtgcat tgtaataatt catgtagagt tacatcta 360

tcagcatata aatacgttta cacta

385

<210> 27876

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G8

<400> 27876

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acttatgata ttaatttcaa ggaggagaac aacgatggct caaacaaaat ttcaggcgac 180
agcctgaaag acctgtacaa gtcctttgtt tctgagtacc ctatcgagtc gatcgaagac 240
ccatttgatc aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa 300
gtgcagattg taggagatga tcttctcggt accaaccoca ccagggtcgc caaggccatc 360
aatgagaaga cctgcaatgc tctcctcttg aagggtgaacc aaatcgggtc tgtgaccgag 420
agtatcgaag ctgtcaggat gtccaagcgc gccggat 457

<210> 27877

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G9

<400> 27877

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tggtggatga ccctgaactt gagaagttgc acgcggagag aattgctgcc ctttaagaaag 120
aggttgagaa gcgtgaagtg ctaaaaaggc aagggtcacgg tgaatacagg gaggtaattg 180
aaggggactt ccttggggag gttactggca gtgaaaaagt catatgtcat ttctatcacc 240
gtgaatttta ccgttgcaag atcatggata agcatttgaa ggcccttgct cctgtctatg 300
tggaacaaa attcatcaag cttgatgctg aaaatgctcc attctttgta gccaaactgg 360
caatcaaac cttgccatgt gtaatatgtg tcaagaaggg tattgctgtt gaccgggttag 420
ttgggtttca agatctcgga agtaaagacg att 453

<210> 27878
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H1

 <400> 27878

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cgcggtgcgg aggcgcgaca gaggcgggtg cgactccgac ggactcgcag ccaccggtgg   120
agacgcccc a cgggcgcact cctccaacgt tcatagttta agggcttgat ttggataatt   180
agtcatcaac agaagtgata aaaaatggtg gttcttgcag catcaatcgt ttcaaagtcg   240
ggaaaagcac ttgtttcaag acagtttgtt gacatgtctc gcataagaat tgaaggatta   300
cttgctgcgt tcccgaaact ggttggaact gggaagcagc acacttatgt cgaaactgaa   360
aatgtgcgat atgtttatca acctattgaa ggtttatatc ttctacttat cacaacaag    420
cagagcaata ttcttgaaga tctggacact t                                     451
  
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<210> 27879
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H10

 <400> 27879

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ggagagggcg tgcccgggcg tgggtgctcg cgccgacatc gtggcgctgg cggcgcgcgga   180
cgccgtgtcg taccagttca aggcgtcgct gtggcaggtg gagacggggc ggcgcgcagc   240
cacggtgtcg ctggcgctca acacgggggc gctgccgtcg cccttcgcgg gcttcgcggg   300
cctgctgcag agcttctcgg accgggggct gaacctgacg gacctcgtgg cgctgtcggg   360
ggcgcacacc atcggcgtgg caagctgctc cagcgtcacc ccgcgcctgt accaggggaa   420
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<210> 27880
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H11

<400> 27880

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aggaagacct caccgtggag atcgacgaag acgtgctcgt catcaagaag aggaaggagc 180
tggtggggcca gcgagaccct ggcagtggcg tcgcagagta cggctcccag tcccagcagc 240
agagcaggag gggcaccgca gatggcaagg acccgctgcc ggcggcacag caaggccagg 300
gcggcgaggt ggtctatgcc cggatgctcc tcccggcggg gtacagcagg gatggcgtgc 360
aggccgagct caagtccggc gtgctcaagg tcaactgtcgt caaggtcacg gagcgagcgc 420
gcatgaagat cgacgtcccc attcaagtc 449

<210> 27881
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H2

<400> 27881

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tggcgggtgca aaagggccga ccgatgtcga ggttcaatgc taccgactgc gtgcctccga 120
cggagacgct ctaccatgcg gctacttaaa cgcaaataac tgaccgtctt gatacaacta 180
attaactgtg aacacactgg atttaccaag ctgaatctcg cagcatcaaa tgcctcatta 240
gtccagatga gcacttggtc taagacgcct tgacgacatg tctttcataa gaattgaaca 300
gatcactatg ctgaatggca aaaccctttt aaactggcat aaagcacact ta 352

<210> 27882
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H3

<400> 27882

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gcagggccgg agcccagga tcgagactga tcagcgcttc gagacgccat gatcgtagat 120
gatgagtgtc gtatgctgaa ggatgagatc cataagctcg gccagcatta acaccgatgg 180
ctactacaag gtcaagttcg gcgctctatt taacgacgat cgggtgtgcta atatttttga 240
agcactagtt ggtaccttga gggccggcaa gaataggaag atcttgacct acgaaagc 298

<210> 27883

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H4

<400> 27883

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cgaacggtgt atcgtggtgg atcgatgagg tgcggagggt ccatgatctg gtcccgggtg 120
atggcctctg gattgacatg aacgaggcct ccaacttctg cacggtcaag tgcacgattc 180
cgaatacgca ccagtgcctt attcctgaca ccaagacacc atggctctgt tgcttggatt 240
gcaagaacct taaaacaca ggggtgggatg agccgacgta caagatcaac gcttgcggtc 300
agactgcccg tctcggttc aacaccatct gaaccagcgc tacacactac aacggcatcc 360
tgtagtacia tgccacagt ct 382

<210> 27884

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G12

<400> 27884

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ctgccgcggc gggcgcgctg ctgctgctgc tctgcatcgc gggcgcgcg cgggcggcca 180
acgtgacgta cgaccacgc gcgctggta tcgacggcgt gcggcgcgctg ctgctctccg 240

gctccatcca ctatccgcgg agcacacccg acatgtggcc ggggctgac cagaaggcca 300
 aggacggcgg cctggacgtc atcgagacct acgtcttctg ggacatccac gagcccgtag 360
 ggggacagta cgacttcg 378

<210> 27885
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-F11
 <400> 27885

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 ccgtgtacga ggtggggcgg accattgggt ggaccgtcat gggcaacccc gactacgccg 180
 tctggggccag ctccaagcag atcgctcgtc gcgacactgt tgtgttcacg tataacaagc 240
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 cgacggacac ctgggtccac gggaacgatt ccgtcgtcct caacaccacg ggccaccact 360
 acttctcttg cggctacccg ggccactgcg ctgccggcca gaaggtggac atccgcgtcg 420
 cctactctgc tgcccc 436

<210> 27886
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-F12
 <400> 27886

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 acaataaaaa agtaatctca gcaaataata atgaataagg aggatgcaat gacgactagc 120
 tgaacaggac taaaagccaa gcaactcatc ttgtaaacat taactaagct accccaacta 180
 caaacatctt ccattcatag atgccgacaa gactatactt agagtattgt gtaccttgat 240
 aataccatga gaaagggtta cattactgag ctgaagaaat tgctacgagc ttagtcatgt 300
 gtatagatcg atgtatactc 320

<210> 27887
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F2

<400> 27887

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aactgataaa tattctgggtg agtaacatgg tcttggcttt gatgctgtca agaccaccta 180
tgctcaatgt gtcattgatt attcaattaa agatgaacta tttatgaaaa ttgagtaatc 240
tgattggagt cttcgtctga ctgatctcaa aggcatactt gggttattga cataacggat 300
ttgatcacta ttttgctaac caaaaatgcc agtcgctatt tgaggtcc 348

<210> 27888
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F5

<400> 27888

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gtcggcatct gcggatatca actctttcgg aacatcaccg tctaccagga agtcagggtg 180
aactatgcat gtagggctac tcgtgtgctt gagaaccata aggaggggag acgtttcacc 240
atgcatagcc taagaagctt tgtgcacgac atgactcctg agatcatgcc tgcacttaac 300
aagttcttta ctgaccctaa ctgaatcatg ttgattgaca tactactact actactactt 360
gctactgtgg atgttacact ttgctgtcaa ctcaatatgt tgtggacatg catgacctat 420
aaaagtactt tgagcgcttg gtgatgactt ggtctatgta 460

<210> 27889
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-029-Q1-K1-F6

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caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg ccnctaacia tggtaggata 420
atttcacatt cttcacgtac gcataggcca acccatgc 458

<210> 27890
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F7

<400> 27890

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caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg cccctaacia tggtagata 420
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<210> 27891
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F8

<400> 27891

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cggacatggt ggtegatgcg tcggaggagt ctgagacggc tactgcggcg tggcacaaaa 180
tcaagagggga gtcgcttggg tctcttcgtc atagctgggg gaggtagtag gtagcttact 240
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tcggtcatcc ttgtctacaa tgtctcatta gtaaggatga aaacgatcgg taaacattaa 360
aaccattttc gttttcatat ttttctcaa aaatgagatc gaaaacggta acttcagaaa 420
cgaacacgac atcggttaatt cggaacatc gaaaaca 457

<210> 27892

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F9

<400> 27892

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gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180
ttgtccata caagattcca acaagactat acttgtggga ttctcttcct cggaatgcca 240
tgggaaaggt taacaagaag gagctgaaga aattgttagg agcttagcca tgtgtataga 300
tgtatttatc tcttcatttc cttcttaaag tttagcaagt cgggctcatt atattgatta 360
gcgaataagt gctttcggtta ccatggacca ataatcttcg aaacggcccg agttatactg 420
cgcacacatt tatttatcag aaaag 445

<210> 27893

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G1

<400> 27893

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cacatcaggt tgtcgaagat ggatacgagt ttttcgctag cgtcaactc gtaacaatat 180
tttcagcccc taactactgt ggagaattcg acaacgctgg tgccatgatg agtgtagatg 240
atacattgat gtgctcgttc caaatattga agcctgcaag gaagatgatg ggtggttcaa 300
ctaataacaa atctggcttc aagtcattca ggggatgggtg acaacggcct gatgggtgggc 360
acgctgcgtt cgacaggggg tacatcttac agcggctgca actaacaggc atatgcattt 420
tcgcgg 426

<210> 27894

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G10

<400> 27894

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taaccactcg tcctctcagt accctgatgt taaccatgcc acagtgaaga cttccactgg 180
ggagaagcct gttcgtgagc ttgtctctga tgacgagtgg cttaatgggtg aattcatcac 240
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ggctgctagc tctgcttgtg accacattcg tgattgggtt cttggaacac ctgagggtac 360
atttgtttcc atgggtgtgt actctgatgg ttcatacggg gttccttctg gactcattta 420
ttcattccca gtaacatgca gtgggtggtga 450

<210> 27895

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G11

<400> 27895

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cacgagtaag caaagaacct tacaacggat tcatgaagtt tactccatat gcatttggtg 180
tgacattggt tcctttgttt tgcctttcat tacagtcaaa tcatctggct cggggggccta 240
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agagaaagat taggtgagag cttggtaacc ctgaggtttc ttttggttac ccagtagtcc 360
agctaccaac acttgaaaca agctcttcag atgagaagca gcagaagcaa cttttcttta 420
gaatctactt ggtttctaag gattgtcag 449

<210> 27896
<211> 448
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-029-Q1-K1-E9
<400> 27896

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ctcggagcga gtctcagaag cgatggcgtc aaagaggctg ctgctggcgg cgctgtgcgt 180
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cagcgacgcg acgccggaga tgcagacctt cttcaagccc gaggccgcgg cgctcccgga 300
ggccctggac gcgtcctcca tgcccgcgc caccatggcc gcgaagccgg aggccacgtc 360
gatcccgacc accaccaccg gcaccacgcc ggcggcgggc gcgggcacct ccgccgcggc 420
aggcactact gctgcgtcgc cgnccgcgc 448

<210> 27897
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-D5
<400> 27897

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ggcgcacac acgaatgtag ccactaaca ctcacactaa cgacgtttcc agtgcataac 120
taagacatcg tcgccaacat caacttcaac ttcacccgct acctctgcat ctagcacaac 180
taccacattg taaagaccga cctgaccgtc aatatggata atgaaaagct ccgcgtacgc 240
cacgaccacg acgtacgtca aagcaccata cacagcgata acgactgaca tctgggtatcg 300
cagtacattt cacgcacacg tattctggct acatcgacga ttcataccat ctgctgctga 360
ttgtgcgata cactgctact atgcatacat gtatcgtgct actat 405

<210> 27898

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D7

<400> 27898

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gcaaggtttg ccgtctcatt ttatgcgttg ggatgttggc aagaaagggc agatgtcatg 120
tgagaattta agttaagtga aatcgattca gggttttctt ggttttcagtt tctaaaaaaaa 180
aaaataaata aaaaaaaaaa aaacaaaaaa aaaaagaaaa aaaaataaca agaacaaaag 240
caaaaaaaaa aaataaaaaa aaaacgaaaa aagaaataaa aagggggggc tcttttagag 300
gttcaaagtt tacttacgct tctatgcaat gtgaaaactt ttatatgagg taccttaaatt 360
tcaattcatg ggccccgttt taacaagctc ggaattggga aaaccct 407

<210> 27899

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D8

<400> 27899

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gcgcgactgg tcgacgtggc acgctctgga gagtcttcct cggctgaggt catttggtt 120
ctgaacatta acagtgactg aaagcctttg gtggatgatg tggatgaaag ttccaaggaa 180
gaacattcat atactgataa cctgataggc aataagagga ggtcttgatt ctcagataaa 240

cctgactata ctgaatatgg ctccaaaaaa tgttctgccc tggcaagcta catggctgct 300
ccacaatctt cataggccat actgcagtgg aatagttgac acatgactta gctcttgatt 360
agtatataaa aacggtttca ctcggttca ctccgttaag ccctctatca atggtgagat 420
aatctcacat ta 432

<210> 27900

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D9

<400> 27900

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actggttaat cttcagctag gatggtgggc ggcctccgc aaggaccaca atgcctgttc 120
tggctacgcg ctgatgaaca atgaaaatga accactgtta cctgcaacag catcagcagc 180
agcatgtgca acccaaaagg agccgtattc cccagtagaa attttgtact ggacagaggc 240
acggttcaa aaggttcggc cctaaaaatt gctctgcaat gtcagtggtc cagcgtagat 300
gatgatgatc gcttctaaca tagtctataa aaaatgcata ctggagattt ggtactagat 360
aacaagagga ccttgagtac cgagtttttt ccggtgaaag attgatgggc gatgccacag 420
cctgaagacg aagaggatgt aaagaaaa 448

<210> 27901

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E10

<400> 27901

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tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180
aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240
aaatgccact ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct 300

tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360
tctgaggatg gatttgtgag ctttcttact tcagatggca acactaagga tgatcttaga 420
ctcccaactg atgagactct t 441

<210> 27902
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-E11
<400> 27902

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gacgccaagg ggaagggcaa gcaggcggcc ggttcctctg gcggcgacga cggcggcggc 120
aaggagggca agggcaaggg caagggcaag ggcggcaagt ccgctgacgg actcggcact 180
tgcacctacg tcaaagctag gcacgtattg tgtgagaagc aggggaagat caatgaagct 240
tataagaagt tgcaggatgg atggctgaat aatggggaca aagttcctcc tgctgagttt 300
gctaaggtag cacaagagta ttctgaatgc ccatcaggga agaaaggtag agatcttggc 360
tggttcccgc gtggcaagat ggctggtcct ttccaggagg ttgctttcaa cacacctgag 420
ggaactgtta ggcaccatt caagtcca 448

<210> 27903
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-029-Q1-K1-E12
<400> 27903

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tcaatgggtg ctgctttgca acaggaaagg actgggtcca tgcagggtgc attgaatgca 120
cagcagcagt ccagtagcaa catgatatcc aacaatgcaa tgagtacaat gcagactaat 180
aacaatgcaa atgcgaattc attgcagcag ttaaagcagc aacgtcagga gcatcaaagt 240
atgcaaagtc agcaaagtaa gcagcgccag cagatgatgc aacagatata acaaaagcaa 300
acgcttcaac cgcagctccc aatacagcaa ctaaagaaac aacagcagca agggcagatg 360

cagtttccac agcttcattc tggaaatgat gtgaatgagc taaagggttaa gcaaggagct 420
gcaatcaaat ctggaatgta tcaacagctg 450

<210> 27904
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E2

<400> 27904

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ggctcagtgg atcaatgttt catggacata aaaaaatgta taacacgtag agcacttata 120
ctggcagagg ctgcaccag gctcaatata ggaccactca ctaatcgta ctgcactccc 180
gatgtcatat tttgttcgtc aggtgacggg gagcaagata cgcaaaagaa tgtggcttct 240
ctccaatgtc tcttctattt ttcgggtctt gtaacttcag gaagcagggtg gatacaacaa 300
cagctgtatt ggacggaact gatgtgtcat gtgcctactt gtttgccata gatgagtcca 360
taacactgca cgatttgtcc atgaattttt tcattgaatg tagttcccgt ccaaatggct 420
ctaggaactt catatctata tcaacg 446

<210> 27905
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E3

<400> 27905

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aagagatgag aaaatcaaata gaaacgtaga cataaaaaaa atagataaac aaaaaaaaaa 120
ctggctctcc gtttaagatg ctccaagttt caatacacgt ccattcacta atagacactt 180
cacttaggga cgcctaattt caatccactg gccatcgttt tcaaacttcg caactgaaaa 240
aaccttgtct tcaccaaat taatagcttt ggatcaaata cctttttgac accatgggat 300
actaacacaa agtgccttac c 321

<210> 27906
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-E4

 <400> 27906

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 ttgcttggac taggagtgct tggagggcca ctgtctcttc cttggggttt gtacgtgcta 120
 atatgtcaga gaacacccga gaaaccatgc ttgaacgacg tgagcgatgt tggaagttgg 180
 aggagagcgg ccttgatagc ttcagtattt cttgttggtt tgacgctcat tccgttgtgg 240
 gatgaacttg cggaggaact aggtgtaggg cttgtttctt cgttctgaga tgcggtgctt 300
 accgatagaa ttaggccgtg atgtagttca gttttgtggt gaaatgtagc ttcccacggg 360
 ggaattgttg taaaggatat tggaatttcc ggattaggtg agcaatgata tcgcttatgc 420
 gagtgtaatg aaattgtgcc aactgccaag tataga 456

<210> 27907
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-E5

 <400> 27907

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 ggagcaccac aagaaggagg agggggagca ccacaagaag gacggcgggg agcataagga 120
 aggcatcggtg gagaagatca aggacaagat caccggcgag cacggcgaca agtccggcga 180
 ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag aagaagcacg gcgagggcca 240
 cgaccacgac ggcgggccaca gtagcagcag cagcgacagc gactgagatc tgggtgctgca 300
 gcacaggtgc aacacaagta tgcttgctgg atggaggatt cataccagct gatgctgatg 360
 tagtgtttca ctggtgtcat gcatgcatgt atcgtgctat tataatcaaa aagaaaaaag 420
 aaataacagt cagggatggg ttggttgcca tgtgatcttg tacac 465

<210> 27908
 <211> 270

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E6

<400> 27908

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 gcttaacctg atgggttagat atcatacaag atcaattaca tcaacgagct ctgtaagggc 120
 ctcactaagc gtcaccataa cgttctactc aacatcattc acgatatcat gaatcctaata 180
 atcattacgc ttactaatag gcatgacatg aaacacatct acaatctcat ctactatcag 240
 acccactact tgctcaacat cttttctcaag 270

<210> 27909
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E7

<400> 27909

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 gaagaaaaag ttgatgagac accgtctggt gttgctccag cggctgaaat tatgccactg 120
 caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180
 gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctacagctaaa 240
 cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300
 acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360
 gcagagaaaa acgggttcac tcgtcgtcac tcccttccgt cccctaacaa tggtaagata 420
 atttcacatt cttcacgtac gcaaaggcca acccatgctg g 461

<210> 27910
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E8

<400> 27910

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aggcaatggg gcactccaac gtctggaact cgcaccccaa gaactacggt cccggatccc 120
gcgtatgccg tgtctgtgcg aacctcatg gactgatcag gaagtacggg ctgatgtgct 180
gcaggcagtg cttccgcagc aatgccaagg acattggctt catcaagtac cgctgaaatc 240
aggtgggaat ggaccatgtg gtagaggcga ggttgtagtt gtatttccag taatttagat 300
gttttgttca gaagtctgct agtaaagact gctacgttta tgatggagaa cttagccatg 360
ttggtcatgt tggtcattt gatcatgagt tacctatgtt gagcttaaac tatcatgtgt 420
ccaaccatcg ctgggtagta tgattactgg aatgtatgat 460

<210> 27911

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D4

<400> 27911

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gtgagtaatc acgtacctag ccgcttgtag tagtcatgcc ctactttatt actctaaaag 120
atacatttcg ttgcgtaatc atcttatggc taccatagtc atgtgggtcca atatatactg 180
tctcatatct atattcatgc actggcagaa ctcaatct 218

<210> 27912

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B6

<400> 27912

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gtcgttggtta gtctggggaa gcaaattacc tgttgagtca agggcatgct actcgaagat 120
ggcagaggag ctatgcgcgc ttctggtgga caccceaagc gagacgctga acctacccat 180
ggggtgtctt ctgacgatgc tcaacgctcc agttccggac gagagcaggt cgtcgtacct 240
gcaggacgca ctctccgtct tcaccgaaat cctttgcagc gatccgtagg cgaaggggag 300
tgaagcctac aggcaacacg ccgaagagtt tgtacgtctc atgtttggta cttgtagaaa 360

attaggaatg tataactatg acctgatgtt gctcaggatg atttgtaatg ccgtctgaag 420
 acatgtgtcg ggattttcgt tgtatgtgaa tgtgtgtgat 460

<210> 27913
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-B7
 <400> 27913

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 aaaggaaaag tttaaacaac agtcctctac aaaatccaac ttcttctctt cttcacttct 120
 tctcttttcc tccccctttt acttacttcc tttttttaca tttcttcctt ctataaccct 180
 cacattaccc aacttaatct ccttcattcc cataaaattt 220

<210> 27914
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-B9
 <400> 27914

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 gaagctaaat gatgcgagaa agctggaatc aagtgcgcat tacagcgagc attttggcaa 120
 agagtaatgt atgatgctgg acagatgcat aaggcgtgta tcatcaggga gctctgtcag 180
 atgcgatgca aaagcgaaag aaaccagcta tttatgttca ggctccaggc agtccactt 240
 tttcctgata ttcacaattt tagtgaggag gattgtcaag ctgaccagtg ggggaaatca 300
 gtcgagaatt tagtagttct ggcgcagatg gcctttgctt ctgtaaactg tacgtaatct 360
 gcttccgtgc gtcttagtct ggtaataact ctggttggac ctgttctgtt tccatgtact 420
 tttggacagt gtgcctgact ccgc 444

<210> 27915
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C10

<400> 27915

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tatgtgaaat atggatacgt ctgttgacga tagaaatcac ctacgtgcct tacgattcta 120
tttagcgatc taggaatacg gtgtaatcag tacctgcttg ttgacatatc gtatgcctat 180
cgcttatgtt gggtagccat gatgc 205

<210> 27916

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C11

<400> 27916

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cctgggtgtga attgcagaat cccgcgaacc atcgagtttt tgaacgcaag ttgcgcccga 120
agccttcttg cgaggggcac gtctgcctgg gcgtcacgcc aaaagacaaa caactaaaaa 180
aaaaaaaaaa aaataaaaaa gtacataata ataagaatag aaatcaatta tcgattcata 240
tcagggtgaac tagctgatca tgcgaataaa ggatgttcag atactgactc aggcgtatct 300
gtatctgacc gatcagat 318

<210> 27917

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C12

<400> 27917

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gctgtcggcg gtggctcagg tccctctaca tctgcggcgt ggcactcggc gtctgacctc 120
aacaagcaag atagcagatg gcatgcggca gggtcgcgca tgccaccctc aagggcccca 180
gtgtgggtgaa ggagatcttc attggactga ccctgggtct gatcgcgga ggcatgtgga 240
agatgcacca ctggaacgag cagaggaaga ctaggtcctt ctatgacatg cttgacaagg 300

gccagatcag cgttgtcgtc gaggagtaaa gagttcttcc cagatatattt caaagaactc 360
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 ccatttgga acaccagatt atgtcgaatt t 451

<210> 27918
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-C2
 <400> 27918

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 cgaggagttt gtaaagagcg gaggtgctct tggaaccaca attggacca ggggattcgc 180
 tgacgccaat atggattctg aaaacatgca gaagcagctg cagtctaaga agttcgagca 240
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 ggggtttgat atcgagtga tttgaaacct gcagtatggt cggcgctgag gatgttaaaa 360
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 agcta 425

<210> 27919
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-029-Q1-K1-C4
 <400> 27919

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 taatccgggg gcggcccttt tgcgggtccc atgtttcctt cccctctttt gcaaccttta 180
 cctttttctt cggggccccc taattcaatt tcttggtccc tttttttaca tctcgttctc 240
 ggaaaaaccc ctggtttacc caatctaatt gcctttcatc catatccctt tttgcccctc 300
 tggctttttc ccaagatgcc ccgcccacat tgcctttcca accttttgcc cgcctatatt 360

gctaactgga cccccccctt aaggggcctt ttaaccccg cttttttttg gggtccccc 419

<210> 27920

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C7

<400> 27920

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tttcctggac aaggttctcc gtctctacaa ccttatcaac gagaaaggaa aagcttacia 180
actactactc gctgcaacag tcaactgtttg tacatcatgt tgtctatttg gcttgccatg 240
gattgctgct tgcaaactt gtccaactga cactagagaa gcttgtccat caatagtccg 300
ttctggtaat ttcaagaaat tccaatgtgc aacagatgaa tacaatgatt tggctagcct 360
attcttcaac acaaatgatg acactattag aaacctctac agtgctggca ctgatgatga 420
attccacatt tcgtccatcc ttgtgttctt tattgcatc 459

<210> 27921

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C8

<400> 27921

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gtatttttga gacagattgc aaagtagcca ggtggtgtag agaccagtag agagctacia 120
agctagagaa tcggacctta tcatggctaa gtttatcgat gtatgtatga agtatggtgc 180
tccagttcgt agtagcaact gggaactgat gtagtcctga tggatggact tggactcacc 240
ctgatcggtc actcaggcac tctgtactgt agatgtaggc atgtagctgc tgctagtagt 300
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tgcagatgtg ccgtattgtt ttaaaaaaat tatctattat gc 402

<210> 27922
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C9

<400> 27922

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 cgattcaaac tctggcttct attattctga cagtttaggc aagtgggtta cccaagaaga 180
 ggcgtacaag tccgtgcaag cttccaaatc agacgctggc caatcctcag cttcaciaac 240
 aaaagctcct gctgccgcag aaacagctgt ccccgcgatt aaaggagggtg cagctccagg 300
 ccgggtgggtg acgaaaccgt tgaacccaat gagaccgatt aagggcactc ctgctccgtc 360
 tgctgttgct gttaacaaga ggaagaggga tgacggcaag cccaaggcgg tc 412

<210> 27923
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D10

<400> 27923

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 cggcagggag gacaagcctc agccgccacc tgagggccgt cttcctgatg ccaccaaggg 180
 ttctgaccac ctgaggcaag tctttggcaa gcagatgggt ttgagtgatc aggacattgt 240
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 ggcttgact acgaaccctt tgggtcttga caactcttac ttcaaggaaac ttctgagtgg 360
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 cccgcctctt gtggagaaat atgctgcaga t 451

<210> 27924
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D11

<400> 27924

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gattgcgaag aaagagaaca tcaagattca cgggttctaa gggacctgta aatgcttggtg 180
ccctatattg tgtgcctcca catattgggg agcttgaagc atcgacaagt tactagtcatt 240
tgcttactta tataagaaca taagtagtat ttgctattgt caagtgtgcc ttgcttgatg 300
caagttgtgt tttcgtatca ttattattat gcacggccat cgtacgtgta tggcttgatg 360
gggttattgc caacttaata aaagcacact ctgtttgcct aaaaaaaaaa aaaataaata 420
actaaatatt aaaaaaaaaa aa 442

<210> 27925

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D12

<400> 27925

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gcagaaggtg ctgaagcaga ggcacgtcgg gagcctcggc cgcacgtgc tccccaaaaa 120
ggaagcggag gttcacctgc cggagctgaa gacgagggat ggcattctcca tccccatgga 180
ggacatcgga acgtcgcgcg tgtggaacat gcggtacagg ttttgggcca acaacaagag 240
cagaatgtat ctgctggaga acacagggga atttgttcgt tccaacgagc ttcaggaggg 300
ggatttcata gtgatctact ccgatgtcaa gtcgggcaaa tatctgatac ggggcgtgaa 360
ggtaaggccc ccgccggcgc aagagcaagg cagtgggtcc agcgggggag gcaagcacag 420
gccctctgt ccagcaggtc cagggagag 449

<210> 27926

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B5

<400> 27926

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gcgaacatcc aaggacagc aggtcttaca aaacgcacaa tcactccata tacatactac 120
ccttccaagg ctacttgaac gactcaaacc tgacaatata cactcatgac tatcgacgac 180
aactataaac agactggtac gacaaacttc cacatacatc cagactacct gatgcaccta 240
ctcgccatca taatcaatgt tcacatgctg aacaccatca tgcccatcct ccgacgatct 300
aactctactg acatccttac atgtg 325

<210> 27927

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D3

<400> 27927

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agtcaggaga ggcgtttccc tcgcaatcga ccatcacaga tcaaatacgt gcaactagct 120
agggtttcgt cgctcatct ctcgtcgatc catcgatggc gtccgagggc gacaacaaga 180
ggatgatcac gctcaggagc tccgacttag aggagttcga ggtggaggaa gcggtggcca 240
tggagtcgca gactctccgc cacatgatcg aagacgactg cgccgacaac ggcatcccg 300
tccccaacgt caactccagg atcctctcta aagtcacga gtactgcaac agtcacgtcc 360
acgccgtcgc caaaccgct gac 383

<210> 27928

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A11

<400> 27928

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tgttgctcga cctcgctga gaatgggaag gaaaacaagc ccgagaaggg tatggaaaat 120
tcgaagcccg aaaacatggt ttcaaacggg ataaccatgg cctcacctag atctcacaac 180

agcacaacac gttccccata ggaatcgaaa ttggaattgt aggccaggat gagccatgtc 240
 gcgggtacag atccacgtcg acgcggccat ggcggcgagc agggagatgg gcctcgacag 300
 tagtgggtggc atggggaggg aagaccacat ggcacatgtc gtgtgtggac acgtaggggc 360
 cgtggagcca gcggcgggcg gaccaggcag agcgcgtgtc agagtgtctg cacctgcagg 420
 agatggagag gaggagcacg aga 443

<210> 27929

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A12

<400> 27929

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 gcaagagaaa gaatgctcag caaactaaga ctaaaaaac aaaggatgct ggaacaaaaa 120
 ctggtgcaga ccaagcaggg aatggagatg ctgaggatga tgtgcaagat aaactcacag 180
 ggaactctgt ctcccagagg ttaccattaa tatttccaga taaagttcaa cgttcaaagg 240
 cattgattga atgtgatggg gactcgatag atttaagtgg agatattggg gcggttggga 300
 ggatagtagt ttcaaattgg cctactgcaa aacaggattt ggtgttggac ctgaaaggaa 360
 caatatacaa aacaactata gttccatcca ggacattttg tgttgtgagt gtgggacaat 420
 cagaagcaaa gatcgaagct attatgaatg 450

<210> 27930

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A2

<400> 27930

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 ctgtggaaga atgtacccca gggagctgcg actacttgct acgtaggact gagccctcaa 120
 ctcaagggag tgacaggaaa gtactttgct gactgcaacg tggagaagac gagcaaactg 180
 gcgaggagcg aggagttggc gaagcagctc tgggacttca gcgaggagct gatcaagtct 240

gcgaagtgag agccgaaaga gctggatcag agaaaatggt gtggctcctgc ttggcatcta 300
 gtggtacaag tgatgactga ttagtatata gcacggaaga ggaacctggg cgatggctgg 360
 acctcatggt gttcaggaat aaaatctgct tgctttcgta cattaattag tcccgtgtgg 420
 catacatcaa tttgtagtgc tgtcaatata tgttcaatat acg 463

<210> 27931
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A3

<400> 27931

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 cggtgtttct tgataaaaaa aaaaaaaaaa aaaaaaaaac aaaaaaaaaa aaaacaaaaa 120
 aaaaaaaaaa aggggtcaaaa ctttacaat actaacatca acgtacacat tcaatcgact 180
 acaaacatgt aacatagagc cacctaaaca gaatcaacta tcacatcttt taacaacata 240
 aagactagga aaa 253

<210> 27932
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A5

<400> 27932

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 agagggcgga acgcactaag actaaaacaa caaaggatgc tgtaacaaaa actggtacat 120
 accaagcatg gaatggagat gctgaagatg atgctcaaca taaactcaca gggaactctg 180
 tctcccataa gttaccatta atatttccag ataaacctca acgttcaaag gcattgattc 240
 aatgtcatgg tgactcgatc gatttaacta gagatattat tgcacttgac aagatagtag 300
 tttcaaatag tctactgca aaaccagatt tgttggttga cctcatagga acaatatata 360
 caacatctat agttcca 377

<210> 27933
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-A6

 <400> 27933

 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagtg cctacctttt taaagatccc ctttttcctt 180
 cctcttcttt caaattatta accttttttc agtttgccca aatatcaatt acctcaccta 240
 tcttttaaaa ccatagcatt tgaaaaaccc ttgtttttcc caattttaat cttttttaaa 300
 attatccctt ttttcccttt tggttattac cctaaaagcc ccattattc cccctttcca 360
 aatatttccc cctccttatt gcctattgta cccccctttt aattggctct taaacccc 418

<210> 27934
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-A7

 <400> 27934

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 gttagagtca gtactgggtc ggatggaatc ttcggatatc cgcactcttt gcgataactg 120
 gtacggatgc ggatattgta ttcggatatc gaattcgaat acaatatgtc tgatatctgt 180
 cggatatcga atatccggat attttctcgg ataaatcttc tcggatatcc ggatagctgt 240
 gtgtattttg ttgatctttt tgtagaaaga aattaataat acacaaatat tctcaaaaaa 300
 taagaaggct aataagcaaa ctaactcaca caaattgaga tgaatctaaa ctgaacgtta 360
 tccagtaa at aaaccttaaa cagcaaaatt aaaagggggg gccgt 405

<210> 27935
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-A9

<400> 27935

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gatgtcaaga cttacgtgcc ccttggttga aaggctatcg ccaatggcgt tgagaaactg 120
atcgagcttg gggcaacaga cctcctggtg cctggcggtc tccaattgg ctgcttcccg 180
ttgtacctga cgctgtacaa caccagcagc aaagcagact acaacgccc gaccgggtgc 240
cttcggaggt acaaccgnct ggcttccac cacaacagg agctgaagca gcagcttgac 300
gagcttcaga agaagtacc caagacgaag atcatgtatg ggagatactt caaggctgca 360
ctgcagtttg tcgtcaaccc tggaaaattg gttttagca 399

<210> 27936

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B1

<400> 27936

caatcagtc gtcacagctc acagcaaaca ccgcgaagcc gcccccgctc ccaaaccgca 60
ccgagcaaag cgcaaagccc cccaaccgcg gatcaatccg cagcatcgat ggcgcccaag 120
gcgagaaaa agccggcggc gaagaagccc gcgaggagg agcccgcgac cgagaaggcg 180
gagaaggctc cggcaggga gaagccgaag gcgagaaaac gcctccccgc gggcaagtcc 240
ggtgccggcg agggcaagaa gggcaagaag aaagccaaga agagcgtgga gacctacaag 300
atctacatct tcaagggtgt caagcaggtg cccccgaca tcggcatctc gtccaaggcc 360
atgtccatca tgaattcctt catcaacgac atcttcgaga agc 403

<210> 27937

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B10

<400> 27937

cccacgcgtc cgggaagaga atcaagctca gtgctgagaa ggctatcttc atatttgtga 60

agaacaccct tccaccaaca gctgctctga tgtcttcaat ctatgaagag aacaaggacg 120
 aggatggggtt cctctacatg acttacagtgt gtgagaacac cttcggactg ctctagatgg 180
 ctcaccgcaa tcgggtcggg tagccttgcc catgcctcct gtaaataaga cctgccaagc 240
 aactgtgtat attctggttt cgtcgttgca agtgggttgcg ctctactgct aaagcctacc 300
 tatcagttgt ggagttgtcg tcgatgttat ggacacactt aatcaagttt attaattgac 360
 tggacc 366

<210> 27938
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B11

<400> 27938
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 tgagcagcag acagcagcag ctgctgccat ggaggcgtgg agatctctcc tcgcgagctt 120
 cgtgctcgcc gtgctggccg cgcaggcctt ggtggccgtg gtcgagtcca ggaccggccc 180
 cgtggagcag gcgagccaag gtgacgacgt gaagaagccg gactgcgtgc cggggataga 240
 cccgcgctcg ttcccgggca ccggcggcgg ccacggcacc acgcccgtga cgccatcgca 300
 cggaggctcc agctccccga cgccgtccca cggcgggcgg ggcgggtacg ttccaacgcc 360
 gtcgcatggc gggacgctgc ctttcccgtc ccacggcggc tccggctccg gctcctctcc 420
 gacgtcgccc 430

<210> 27939
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B12

<400> 27939
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 cgccactgaa tggatgcttc cgtctccggc cagcgaagtc cacaccatct ccgtacttcc 120
 ctcccgtcgc gacttcgcct tctccaacct cacgatgtcg ctcaggaata gggcgggcaa 180

cgagggagag agtggcagta ctaagttcca cgtagtacgg gacgacctcc tccacccgct 240
cgccaacggc aacaaggcgc gcaagctcga cgccctcctg cccgtcctcc gccgctgcgg 300
cgctactgac atcgttacgt gtgggggttg ccagagcgcc catgccgcag ctatcgcggt 360
tcaactgtgcc gaatggggaa tcaggccaca tatactactg agaggcgagc aactggatgt 420
tcccacaggg tataatctca tctcattgat g 451

<210> 27940

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B2

<400> 27940

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ggctggcaag aagggtgatg ccaagaccca ggccttgaag gttgccaagg ctgtgaagtc 120
tggggcagcc tagaagaaga ccaagacgat ccgcacgtgt gtgacatttc accgaccac 180
gacctgaag aaggctaggg accccaagta cccacgaatc agctctaccg gaaggaacaa 240
gcttgatcag taccatattc tcaagtaccc ccttaccaca gaatcagcga tgaataagat 300
cgaagataac aacactgtgg tcttcattgc tgaccttaag gcagacatga agaagatcaa 360
ggctgacgtc aagaagatgt atgacatcca tgcaaagaaa gtcaacacct tgatcaggcc 420
tgatggga 428

<210> 27941

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B3

<400> 27941

aaaaaaaata gaaaaaaaaa aaaagaaaga atagagaaga agaaaaagac aaacaaacaa 60
gggcgggc 68

<210> 27942

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B4

<400> 27942

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agcatgacca agtggcagtt gtttttacag attgagcagt ccttccaggt tcatcgtagt 120
tatggaagta tgcttgaagg cgaggctgat gaactcaaga gggttttcct tgaaggaaat 180
ccttatcttc ttggattgac catgattggt tctctattac actctctgtt tgatttcctg 240
gccttcaaaa atgatattca gttctggaac aagaacaagt ccatggaagg tctatcggca 300
aaatctgtgg ttctgaattt tgtgtgtcaa ctaattgttt tctgtacct tcttgacaat 360
gacacttcat ggatgacctt tgctagctct ggaattgggtg ttgcattga gttttggaag 420
atcggaaagg cgatgcatat tgaagtcgat agaagtggaa aa 462

<210> 27943

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A1

<400> 27943

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gctcatcctt gcatgggtca gcaccgtggc tgggaaagcc tggctcatcc ttgcatgggt 120
cagcaccgtg gctgggaacc tcaccctcct aggctctgcg gcgaatctga ttgtctgcga 180
gcaggccagg cgggcccagt tcttcggcta caacctcacc ttctggagcc acctccgatt 240
cggggtcccg togaccatca tcgtcacggc gattggtttg ctcatcgta tcagttactg 300
aaacagctga aggcagaaga gcgtagtgtg agagaagcag aatggataaa aatccttcca 360
ataagaagta catgtaaatt aggcttgccc tataactcaa gtgtgtatcg gtacgttatg 420
tctccgtctg tgctcttgct cgtgagcaag cagcacatg 459

<210> 27944

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G5

<400> 27944

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gcagaagaag cgaagtcgtc gccggagcag gaggaagagc gagcagcaag atgtcgtggc 120
aggcgtacgt cgatgaccac ctgctgtgcg acatcgaagg ccagcacctc agcgccgccg 180
ccatcgtcgg ccacgacggc agcgtctggg cacagtccga gaacttcccc gagttaaaagc 240
ctgaggaggt tgctgggatg ataaaggact ttgatgaacc tggaactctt gcaccaactg 300
gtctttttgt tggaggtacg aagtacatgg tgatccaagg tgaacctgga gttgtcatcc 360
gaggaaagaa gggcactgga ggcattacta tcaagaaaac tggcatgtcc ttgattatcg 420
gtatctatga tgagccaatg a 441

<210> 27945

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-G6

<400> 27945

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aatctggatc cagatgatga caacgattgg ttgcatagga acgagacatt ccaggcaaac 120
aacattgtca caagtaaaga ctttctaaca ccagggtgatg atgatgaggg tgtcatattc 180
gaagaggagg atgatgatga tgagaacgat ggatacctat tcgctgggca atgcacttcc 240
tattccaaca attgatgtca ttgaaggagc tgcccttggt ggtgggctag aactgggaga 300
caatctaacc tcttcaaaat ccaacataaa ggttgcaaag tagacatgcc ctatttctat 360
agttcatgct tcatggatat gatggtcaca cttcatggtc tgcggtgctg anggaacagt 420
gatagattga tatgaggggtt gcaagtcag 449

<210> 27946

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G7

<400> 27946

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tatctttatc cagatgagga caactattgt ttgcatatga acgagacatt ccatgcaaac 120
aacattgtca caagtaaaga ctttctaaca ccatgtgatg atgatgaggg tgtcatattc 180
aaagaagatg atgatgatga tgagaactat ggatacctat tcgctgggca atgcactttc 240
tattccaaca attgatgtca ttgaatgagc ttcccttggt ggtaatctat aactttgaga 300
caatctaacc tcttcaaaat ccaacataaa ggtttcaaag ttaacatccc ctatttctat 360
a 361

<210> 27947

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G8

<400> 27947

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gattgatgcg gccacgatac ccagtaaggt gaagtacacg cccccaagc agccgcacta 120
caaccaggat aagaccccg agttcgtcat caagatcctc cagtttttgg tccccctggc 180
aatactgggc ctggctgttg ctgtaaggat ctacaccaag tcggaatctg cctagtcatc 240
tgaaccaagt tagcgagggt tgcattctgt ttaccagagt cgcattgtcag aaacttggag 300
tctttgctgt catacggtta tatttatatg agacttctat cggtaaaatg aaatggatgt 360
cag 363

<210> 27948

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G9

<400> 27948

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tcgataatgt tgatgaccac cctttagaaa agcaagacca ccaggatata tcaagtgacg 120

gatctaaaaa gagaagccga tctgtggaca acgcatctgg tggcaacaga ccatacttgg 180
atgagagcaa gaagcgtaat ctacagagaag atggaagata tgctcattat gaagactgga 240
gaagtgaaag gaatacagca gcagacacgt ctggatataa ggcccaatca gaagagaagc 300
ctgtatggac aaacactcga acaggatcaa gggagcattc actggacagg caaaggatag 360
agtgtggtga cagctatcgt ggaacctata acaatagaca aagacatgaa tggccgcacg 420
ctagtggtaa ttcctcgaga attggttggg atg 453

<210> 27949

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H10

<400> 27949

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aggtcaagcc cgggtactcaa cctggtcaga aggtagtctt gagaggaaaa gggatcaaga 120
caagaaactc accgtactac ggagatcaat atgtccattt caatgtcaac atccccgaaa 180
atttgacgtc tagacagcgg gagctgatcg aggaattcgc gaaggaggag caaggcgaag 240
acgagaagga cgccaaggca gcagctggag catcgggggg atagccggtt ttaggagcca 300
cagtagtgcc ttttagctgg tatttatacc gtgaccatag acctgtctca aattcgcagc 360
ggaaaaaata tatagatagg tctttggttc ggattttgta gcttggataa atggataata 420
cgtctaaaac tggttttctg tctt 444

<210> 27950

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H11

<400> 27950

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tcattgacga cctcgagagc agcggcgcgc gcatggcgtc gctcggcatc tggctcgaca 180

ccacccgcga cttggagcgc ctgcgcggc tagcgccggg cgtgcgcgcc cggtcgctgc 240
acctgcgcaa gttagaaggg acgcgcgcc tgccgctgct gtccgcggag cacgcgccgg 300
aacttgccgg cgtgcaggag agcctgcggg agctggtggt ctactcctcc gacgtcgagg 360
aggtcacggc cgacgcgcac gtgcccattg tggaggtcat caagtttggg ttccttacga 420
agctgcgcgt catggcgtgg tcccacgcc 449

<210> 27951
<211> 342
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-H12
<400> 27951

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ggttacatcc cgctcaccac gtacctgcgc acctacaaga tcggcgacta cgtcgacgtc 180
aaggtgaacg gcgcctgca caagggcatg ccgcacaagt tctaccacgg ccgcaccggt 240
cgcgtctgga acgtcaccaa gcgcgccatc ggcggtgaga tcaacaagca ggtaaatggc 300
cgcatcatca agaagcgtat ccatgtccgt gtggagcatg tg 342

<210> 27952
<211> 358
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-H3
<400> 27952

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gagggaggcc atgagccggt tgccgtcggc tccgtgaccg gccgcctgtc cccggcccg 120
aggtagatag gttggtgtat ctatcgctcc cgttgtcatg ctctcaacaa gttgacttaa 180
tcttcttctt cttctccgtc cccctttttt atttttatta tgtcactagc aagattcttt 240
tggtccattg ttttgttgtg ttgtttactg ctgctacata aggaatcaat ctcatgggaa 300
gatgatgagc aaaagcaaag caagaccagg ttgctgttat aaatttatat atatatat 358

<210> 27953
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H4

<400> 27953

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 cggaaggaa tttccaaagc ctgacataat catctcagat cctaatacgcc ctgggatgca 180
 catgaagtta atcaagtggc tgttagaagt taaagctcct cgaatagtgt atgtctcatg 240
 taatccagct acttgtgctc gggatttggg ctacctatgt catggcggtg aggagaaaga 300
 tttagagga ttctatgaac tgaagagtgt aattcctgtg gatatgtttc ctcatactcc 360
 tcatattgag tgtgtatgct tattggagct gcgttgattt tcagttttgg tcaggtaaac 420
 ccactggagc cttgtttggg tgacgagtat tcacctc 457

<210> 27954
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H5

<400> 27954

gcaaggccac acacacacac acaccactag taggctagcc tagcctttta gtcggggagg 60
 aggagcaaga agggcgcgca cgcaagcagg caagcaagaa gagagccgat cgaccgagag 120
 ctagcacgcg atggcgaggt cttccaagat gatggtggcg gcagctctgc tggccttggc 180
 cctggccgtg tcgaccgccc aggcgaggaa catcaagacc acgacgacgg agaagaagga 240
 cgacgcggtg gtgcagccgc agaccttccc gcccttcgac cgctcggcg gcggcgcgctc 300
 cccggcggtc ggcgccctcc ccggcggcag cattcccggg ttcagcatgc ccggcagcgg 360
 cagcagccta cccgggttca gcttgcccgg cagcggcagc atgcccc 407

<210> 27955
 <211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-H6

 <400> 27955

 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcg tcgtcggggg 60
 aattgagtgt gagagctcga aaaaaccacg gggatcggcc ggaccagcag cgagcgagcg 120
 cgagctctgc gtgcgtgtgt gtgtctgctc tagattagat cacctccatc gtcaataatt 180
 gcaggcagat ccatagtctg ctggtggcga gacaaagcaa cggatcgctg tcgatccgga 240
 gagcggaaag cgcgcagatc gcgacggcca tggggcgcgg caaggtggtg ctgcagcgga 300
 tcgagaacaa gatcagccgc caggtcacct tcgccaagcg ccggaacggc ctgctcaaga 360
 aggcgtacga gctctccatc ctctgcgacg ccgaggtcgc gtcgtcctc ttctcccacg 420
 cc 422

<210> 27956
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-H7

 <400> 27956

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 gcgcagagac aggcgtgttc gtactcgctt atctccgcga ctcaaagctt cttccatttc 120
 ctaccgccgc cgctgcagct ccacccatt ccgtcgacac catgaggagag tgcattctga 180
 tccacatcgg ccaagccggt atccaggtcg gaaacgcgtg ctgggagctt tactgcctcg 240
 agcatggcat tcaggctgat ggtcagatgc ccggtgacaa gaccattggg ggtggtgatg 300
 atgctatcaa caccttcttc agtgagactg gtgctgggaa gcacgtccct cgtgctgata 360
 ttgctgacct tgaaccaact gtcattgatg acgtgaggac tggcacctac cggcagtttt 420
 tca 423

<210> 27957
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H8

<400> 27957

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agacgcagaa attactcatg ttgacgatac agtagatcct gttagagaca tggaaactat 120
tagtgaagag ctcagactaa aggatataga gttcatgaaa aagaaacttg aggaccttga 180
taagtcaatg aagaggagca atgataagct gctcaaaatt gagcatgaat tatgtgagag 240
ggatcataggc catcttgagg aagggaaga tgcccgctta ggggattgga aagctgctga 300
cattgagatc ttgaatacat tccagctact ttcagctaag ccagttgtct atttggtgaa 360
tatgagcgag aaggacttcc agagaaaaaa gaacaagttt ctaccaaga tacatgcttg 420
ggtgcaggaa catggtggtg aaaccatac 449

<210> 27958

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H9

<400> 27958

aaaaaaaaat acatccagaa aaccatacca tcaatactaa ctctaaaaaa tctaaaaact 60
gcaggggctt ccaaattttc 80

<210> 27959

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G4

<400> 27959

gggacggcca ggggtggtgag agcgaggga agacgttggt gccatattgc aggggcctcg 60
agttattggt ggacagcaga ttggtcgaga gaaagccatc ggcaactgaa caagctccag 120
cacatgttgc aaaggatgca gctaccatcc gctctacca acaaggacaa cagagacctc 180
agaacttgct gaggcaggaa ttcttgga ggtttaagag gagcgctgga ctggctcgctt 240
caggtgttgc gaagaatcta aacaaaacag ccaattatat caaagaaaat attcaggaca 300

tgtacaccga tgcgtcgtcca ccaaagtagc aaccatgccg agtgattgtc gtcaagagct 360
gaagaaatcg cttgctactg gaaactttac atcaggacta cctggaaact ttac 414

<210> 27960
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-F10

<400> 27960

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tatgcatttg gtgtgggtct tagtactttt gacaaggcct cgggtgaatta ctatgtgcaa 120
tcacacatac agatgaatga atacgagat cgtgttggtcc tgccggctgc atcaaagaag 180
tttgggagac agattaatac ctgcttgaag gttatggata tgactggcct caagctgtct 240
gcactgagcc aaaataaaaa tgttgccgat gattactact gttgatgacc ttaattatcc 300
tgagaaaacg gaaacttatt acattggtta tgctccataa tgtttttcag cgtgggtggaa 360
agggtgtgaag ccactcttac aagaaagaac ttaaaagaag atccaagtnc tgtatggctc 420
tgggagggat gagttactga aggtcatgga ct 452

<210> 27961
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F11

<400> 27961

gccacgcgtc cgaccacgcg tgcggccacg cgtgcgaaat aaaagcaggg acaacactga 60
ggatgcatat ggtgtgagtc tggagtactt ttgacaagga ctgggcgaac gactatgagc 120
atccacacat actagacgaa tgcattatcc agattatggt gacttgacgg ctgcctcaat 180
gaaatttgcg agacagatta atacctgctt gaacctgata aaaccgactg gcctcaaact 240
gtattcactg agccgaatat acatgttaac caagatgact actgcggatg aacgcactta 300
tcctgagaca ttgggaactt atgacattgc taaatgtcca taggtacgcg ccgtgtattg 360

gaacgttaag accccac

377

<210> 27962

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F2

<400> 27962

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ggatatctga atgaggtgcc gaatataagc aaattcaagt gaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa 240
aaaaataaaa aataaaaaca aaaagagaaa aacaactaaa aaaatgagga aaacattcaa 300
aattaaacac aatttccttc cttaaaaaaa aaccccccaa cgtcacttat actgtccact 360
aaaaaaaaaa cggcgggact ttttaaaaac tttttttacc 400

<210> 27963

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F3

<400> 27963

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tggtattacca cctctcacc ctgctatgcc actgcctcat cctcaccctg gccatcctgt 120
tcctctgggtc caatgccacg actttcatca acaagtctcc tcctaacatc cccgaggtga 180
agatcccaga tgacctggct gtgaatgttg cacgttcctt gagatatgag atcaacaggg 240
gttttgctac ctgaggggag attggccaag gccatgacct caagaaattt ctgattgtga 300
ttgcaggact gtggatcctt tctgttcttg ggagctgctg caatttcctc acctgtctt 360
acatagtttt tatggtactg tacactgtac cggtcctgta tgagaaacat gagga 415

<210> 27964

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F5

<400> 27964

cggacgcgtg ggcagaagcc aagtgttctg atgatttggt ttttcaattg tgttttttgg 60
tattggttca gcaagcacat acatgattta tgacatggca tctgctatct ttggt 115

<210> 27965

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-F7

<400> 27965

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caaaaataca ttgatcagtt ccatatgtta tacgatgact tcaacatcac caagcttccc 120
ttgctttcag aagaggtttg tgggtgttcaa gctctccaaa acttttccca gcacttcctt 180
acaccataca agtctactct taaaaggggc accgtcgagg agctcgaaca gagaataact 240
atattaaaat ctgcactgca agaagctgag acagagttag atagggttag gaaaggggaag 300
cagtcagtggt gatttttttt ccacagggtca agtgtgtaaa accagagaga cgatcaattt 360
tttcgtgtca ttacactctt gttgatttca ctatcatggt tcctcatcga ggagtttaga 420
cttngtatag ctaatcgag 440

<210> 27966

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F8

<400> 27966

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ggatcaggag cgggtggagaa agggccggcc gtgggcacgg tggctgacgc ctccgccagc 120
gtcatcggcg aaggcgccgt gaaggaggag gccgggggca gacggcagcc gtcggccggc 180
tacgcggccg tcgtgattgg cggcaccttc gaccgcctac accagggcca ccatctcttc 240

ctgaaggcgg cagcggagct ggcgagggag aggatcgtgg tcggcgtctg cgacggcccc 300
atgctcgcca agaaacagta cgccgacctg atacaaccga tcgagaagcg gatgcagaac 360
gccaaaggatt atattaagtc cataaagccc gaccttgatg ttcattgtgga gcccatcgtc 420
g 421

<210> 27967
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-F9

<400> 27967

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ccaccaccgg ttctctccgc gtcccccgcg tttcagttcc ttgcttgctt gcttgctctt 120
gctctccctc tctcgtggaa gccagccaca caaggcagaa agagagagtg acgttggtgtt 180
ccatcccgtt ccgctgaagc aaccgctctc ctacaccaa ccaccacac cactctaggt 240
ctctagccga tgcgatggat gtggatccag cagcggacca gcgagggaag aacaagggcg 300
ggctggagtc ggagctggag cgccactacg acgacctgca gcgggagatg atgctgatgg 360
ccgccgatcg gccgcacaag caactgcaac agcatcgacg tcacggggcac cgncccgatc 420
tgctccagaa ctgcgacctg ccccc 445

<210> 27968
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G1

<400> 27968

cccacgcgtc cgccccacgcg tccgcttatt tgcttaaaaa ttggacattc ctttgttaca 60
tatttgtgtt gtactgtgtt ggagctagcg ttcttggtat tctagctata ttgcactggg 120
gtggaagaac gggggacact gtcgccgtgg tcttaagtct atcagcaatg gttttcttta 180
gatttctcct cctgtatcac ttttttgctg cacatcatca atattttatt ctataccttt 240

ttttatctct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa atataaaaaa aaaaaatttt acaaacacaa 360
 acttacaaaa gttaacata aaata 385

<210> 27969
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G10

<400> 27969

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 aagtcggtaa tgttgatgag cacccttttag aaaagcaaga ccaccaggat acatcaagtg 120
 actgatctaa aaagagaagc cgatctgtgg acaacgcac tcatggcaac agaccatact 180
 tgaatgagag caagaatcgt aatctcagag aagatggaag atatgctcat tatgaagact 240
 ggataactga aaggaatata gcagcagaca catctggata taatgcccac tcataagaga 300
 aacctgtatg gacaaacac 319

<210> 27970
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G11

<400> 27970

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 ggagagtacc aggatcaacc ggtccacag taccaggttc attttcttct tcttctcgtg 120
 gtcacgtgtg cgccaaagtt agtttatttt attcctagtt tgggggcatt agtgccgtag 180
 atgcgtcatt ccacatccat ctaggaggga gcactgtcgt ttactgtata cggatttcgt 240
 gatgtatccc gggaaatttt tgtagatcgg actcgtagaa gaagagattg caattgcaat 300
 actgtgtatc actctgatgt tgtccagttt gagaacttga caggtgtatg ggatttgccc 360
 cgaggctgct ggttttcctg ctgcttggtt tgggaaaccg atctctcgat tgtgagatac 420
 aggcaggttt gcgcacgaga gtactctc 448

<210> 27971
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G12

<400> 27971

cccacgcgtc cgcccacgcg tccgattgac tgtaagctca aatgagttca cgccatcgaa 60
cgccatgcc aatgtagctc gtctagtcga gaatgggtca actggatata gcgcacagga 120
cactcacgac gcttctcaga attcagcgcc caaagctgca aatcacgcga accaaactgg 180
acctcagaac aacagcaacc attcaacgtt ggtccctgtg aagcccgcgc cgaaacgccg 240
tggcaggaaa ccgaaacgcg ttgtgcacaa gcagctggac atcccagata tctgcgaccg 300
gcttacatcg tctgtggcgt gcgaagaaat actgtactgt gaaggaatgg tctgctatga 360
ctatgatcag aactcccttc tcttaaaa 388

<210> 27972
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G2

<400> 27972

agatccggag cagccgcagt cccaccgacc ccgcccgcgg tcgccctcca tctcctcgcc 60
gctgcctctc gtttctcttt tcaataatca agatgagccg tggtagtagt gccggtggtg 120
gtcaaagtcc tctgggttat ctctttggaa gcggtgagcc ccccaaacca gcagtggcac 180
cagctgcaag tgctccacct gttgagaaac catctgctgc aaagactgat gcggccaagc 240
aggttgctgc tgggggttacc agccaaacca ataactacca cagggctgat ggtcagaaca 300
ctggcaactt ccttacggac cgtccttcaa ccaaggtcca cgctgctcct ggcggtggct 360
cttccctggg ctacctgttc ggtggcaact gatgcccggtg ctggtgcgc 409

<210> 27973
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-G3

<400> 27973

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tgccgatcgt acggcttcta tagagacatt aatgaatcat ttacaggaaa cagctcttaa 120
tcatgtgaaa acagctggcc ttcttgaga tggttttggc gccacaccag agatgagcaa 180
acgaaacttg atctgggttg tcagcaaat tcagcttctt gttgagcaat acccctcatg 240
gggagatact gttcaagtgg acacatgggt agctgctgct gggaaaaatg gcatgcgctg 300
agattggcat gttcgtgacg aanactctgg acgcacaatc ttgagagcta caagtgtttg 360
ggtgatgatg aantagaaca ctagaanggc tttcgaaaat gccggacgaa gttaggg 417

<210> 27974
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E9

<400> 27974

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aatcttttagc aactaccgac aactccgaac taatcttaaa aaccatggct tcaaaaaagc 120
ttcttcttgc cgctctttgc cttgtggccg ctgcgcttct ctcccttccg tctgaatccc 180
acagccttga agactttctca agcaacgacc cactccaga gattcaaacc ttcttcaatc 240
cccaagcccc tgctctccct gaagcccttg acccgcttctt cattcccgtc tacaccattg 300
ccgctaaacc tgatgccacg tcaatcccca ccaccaacac ctgcaccaca cctgctgctg 360
ccgctggcac cttaccctct gcaagcacta cttctt 396

<210> 27975
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D5

<400> 27975

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gctgagatgc ctcagcttga ggacgacgct ggtgaaagca agatggagga ggtcgactaa 120
 gtgtcgcacg gcatgcttgc cgtttatctt atccctagct aagctacctg tgatagctta 180
 attttacta ttgttcgagg tttttggcac gttatcggtt gtcttgctgg ccaggctata 240
 agtctggttt atctgttatg tttacccttt ttaacagttt gtcgttatta ttcgtaatgg 300
 taaaaatgta gtacatgttt tgccc 325

<210> 27976
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-D6

<400> 27976
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 aggccgccga cgaaggggtgc tcgctgggga agcgctcgc gctgtcccag ctcccgccgc 120
 tggcggcgcg ggccggggccg gcggcggaagg gcgggggtcgc gctggtgctc accgcgcagg 180
 acgtggccgt ggacgggttc tgcacgagcc gctgcggcct gcacgggtcc gacgccgggg 240
 ccggggccgc ctacgtctgg gtcggcaacg ccgaaacgca gtgccccggg cagtgcgcgt 300
 ggccgttcca ccagccgctg tacgggcccc aagcgccggc gctcgtgccg ccgagcggcg 360
 acgtcggcat ggatggcatg gtggtcaaca tcgncagcat ggtcgcccgc gccgtcacca 420
 acccgttccg cgacgggttc taccaggcg ac 452

<210> 27977
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-D7

<400> 27977
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 gcctcctggg ctacagaggt caagcaggcc ctccgtgaga aactccggcg ctccctacggc 120
 gccggagctg cctccgccac accggaggcc aggccggccg gcgaaccaag ccgtggcgct 180

gagtgccgcg gctcggcggc cgaggacccc ataaggagag tcatgttctt ggctccctgg 240
 ggtcacacat aagaacacaa accggccggc cgagatctgg gcatgcaagc ttgcatggcc 300
 atgtcttggc cagtcagatc tgcaaacac caaactgtaa aaaagaactg gagcctgtct 360
 tgtaaactcat ggagcttgct gctgcttgca cccatganaa acatgaacgc atgggagagc 420
 tggttaactag c 431

<210> 27978
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D8

<400> 27978

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 catggcgctc tcgtcgtcga ccccgccggc cgtccgcgag atgcagaagg atctcgaggt 120
 ccaggccaac gccctcagca agatccagaa agacatcgcc aagaaccacc aggtccgcaa 180
 gcagtacacc atccaggctc gcgagaacga gctcgtcctc aaggagctgg agctgctcag 240
 cgatggggcc aacgtgtaca agctcatcgg acctgtgctg gtcaagcagg acctcgcgga 300
 ggccaaggcc aacgtcaaga agcgcacga gtacatctcc gcagagctga agcggatgga 360
 tcgggcgctc aaagacttgg aggaaaagca aaacagcaag aaagaatcca tattcagttg 420
 cagcagagga tgc 433

<210> 27979
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D9

<400> 27979

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 aaggaaggat aaataaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaatct aaaatttaaa aaaaaatcgc ggcaactttt taaaatttcc aagttttaca 180
 ccatcatctt tttaaagtga caactttttt taaacggcat tcttataaaa accttttgtt 240

ctggatttaa aaacggtttc aaaaaaaaaac ccttttaaaa accatcttta atgccaatga 300
gccattttcc ctt 313

<210> 27980
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E1

<400> 27980

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gcctgcagcg gatctccatc tggtcggagt ggatcgggtc tccggtggtg tttctcgcct 120
ccgtggcggg tagtggcgcc ggacggacca cgtccccgca gcagcgggtca gcggcggctg 180
gcctagctgc ggtggcctga ggcggctctc ggacgggtgc ctcgagctgg caccagcggg 240
tgggtgccgc aactctcacc gctagctggg gtagaggcgg cgagtcccg cgccatggag 300
ggtaggccgc aagtgtccgc ttagagaggg gtcaacaaag ggacttgtca agctacgaca 360
ctgcggtctt cggttgcctt gctcagcttg ttgttgccgt acatgatcct tcatgat 417

<210> 27981
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E11

<400> 27981

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ctgcggtggc gctgctgggg ctgggctggg cgtaccaggc cacccgaccg ccgaccccg 180
cgatcttggg cgcaccaaga tggccgtcga tcagctcacc tagaatccgg ctgaaagacg 240
gccggcacct tgcttacagg gaggaaggag tgcgcaagga gaacgccaag ttcacgatcg 300
ttttcatcca tggcttctac tccaccaatg agagcggggt ccccgagtcc catgagcttg 360
tgagagcagc gggcatatac atgctcttct tcgacagagc cgggtactgc cacagcgacg 420
ccaaccgaa gcgctgcctc aagagcga 448

<210> 27982
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-E2

 <400> 27982

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ttcagatatt taagatgcat tgtacatttg gttgtattgt ttgctcctgt cctagtgaat  180
gcctatgggt cattctaagt taccattttg tggttaattgt gttgtaaaaa ctatatgtat  240
caaattatat tagtactgta gctttacact gttagttctt tacggaagat ttagtctcct  300
ggcctccttt tttgtaatat aacagtccta tcattgaatg cttgtcaggg aagggtgtgt  360
gcctaaccct tggggcttgt ttggg                                     385
  
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<210> 27983
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-E3

 <400> 27983

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cgaagcngga aggggggtacc cgtacctnnt ggagaatccc aagnnnaagc taannngaaa  180
tggttcagcc nnncagtttg cnnatccgaa gcatggggct tgctatgnnn tcaactgcnn  240
aactattggg caacacttta tcctgnngtg gtgaaatggg ttgccaagc               289
  
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<210> 27984
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<400> 27984

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tctcccgcag caccaccatt tccgctaccg ccgcggcgcc ctccctccgg cgctcctct 180
cagtcacctc cacagcctct gtcgcggcaa ccgccccgcc gccgccgccg cccagcgcga 240
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ttgttccgct gggacaatgg atgcccaaag tggccgtgga cgcttacgtc gcccccgagg 360
ccgtgctcgc cggccaggtc accgtccacg acggcgccctn cgtctggagc 410

<210> 27985

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E5

<400> 27985

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cagcaacaaa tctacataaa aaaaaaaata gatcaactct tcaaaaaaac ctactttcct 120
ccctcaatct tactaacacc ttactctcct ctttcccccc ctaacttcca tccactgcct 180
ttcctttctc cacttgcttt c 201

<210> 27986

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-E6

<400> 27986

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gcacctcca cctggtgctc cgcttgcgag gtggtatgca gatctttgtg aagaccttga 120
ctggcaagac cataaccctg gaggttgaga gtcggacac catcgacaac gtgaaggcga 180
agatccagga caaagagggc atccccccag accagcagcg tctgatcttc gccggcaagc 240

agctggagga tggccgcacc ctagcagact acaacatcca gaaggagagc actctccacc 300
 tgggtgctccg cctccgcggt ggtcagtaag ccatgggttca tttagctgc tgctgtacct 360
 gggatatctgc gtcgtctggt gccctctggt gtacctctat atggatgtcg tcgtctaata 420
 aacatctgtg gttngtgtgt catgaa 446

<210> 27987
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-E7
 <400> 27987

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 gccggctcgg cggcgggcgtc agcatggcca acgccgcca catccccggc aagtgcggcg 180
 tctccgctcg cgtgcccata agccccaccg tcgactgcac caagatcaac tgatcgatgg 240
 aaccatagtg gaggtagctc gctcgttgga tggcagcgta cgtggccata agcagcatgc 300
 agtcgtcgtc gtagcagaga tgtcctagct acgtgtgtgt catgcatcag actggcacat 360
 aataaagaag tagatcatgc acccactagt gatcacttcg tctagtgtcc ctccgttcaa 420
 tgtcgtc 427

<210> 27988
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-E8
 <400> 27988

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 cgtcatggag tctggctcca gatocagcg cggggcgggg ttcgacgacg acgacggcct 180
 cagcagcgc cgcgaggtct cctcttcgct ccaagatttg acagtaaggg tggaccggaa 240
 ggggtgggagc tgcagcgatg gtggtacgga tcagcggcca aacacaccgc ggtcaaaaca 300

ctcgccaca gagcaacgca tacgcaacat gatcaatgat aggtttcaga tacttatgga 360
gctgttgcca cacagtgatc aaaagagaga caaagcaaca tttctcttgg aggggtattga 420
atatatacgg gttttgcaag aaaag 445

<210> 27989
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-D4
<400> 27989

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cacgcaccac tagtaggcta gcctagcctt ttagtcgctg aggaggagca agaagggcgc 120
gcacgcaagc aggcaagcaa gaagagagcc gatcgaccga gagctagcac gcgatggcga 180
ggctcttcaa gatgatggtg gcggcagctc tgctggcctt ggccctggcc gtgtcgaccg 240
ccgaggcgag gaacatcaag accacgacga cggagaagaa ggacgacgcg gtggtgcagc 300
cgcagacctt cccgcccttc gaccgcctcg gcggcggcgc gtccccggcg ttcggcggcc 360
tccccggcgg cagcattccc gggttcagca tgccccgcag cg 402

<210> 27990
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-C11
<400> 27990

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actattaaag tggaaaagag gatcaatgag attgtgaacc gcttgaataa gacaaaggtg 180
gaacacaaaa cctgatttaa aggctgaaag agaggctatt agtgctgctg aaaaggcaga 240
tagaaaggca cagcttagag acaagaaacg tagggaagag attgagaggc ttgagaaaga 300
gaagcacgct gatatcagga gctacaaggg tctaactggc caagagaaga tgacttccaa 360
taagcaaata gttcttggca tcaagaccct gcaagaactt gactaagact ttatgtgata 420

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443

<210> 27991

<211> 443

<212> DNA

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<223> Clone ID: LIB3067-028-Q1-K1-C12

<400> 27991

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aggccaagca gctgcgtagc acaagccata gctgcgacca tcaagagttg ctgggtttct 180
gctaggcaac ttctgcttg atttggacag tccagaaaac agaagtgaat ccgcaatacg 240
tccctgccat ttcaaatttg acttggttac acctatctgt gacaatgtta atgtaatgag 300
aaccattgac actagtgaac gtcccaagtg tccacctggg attgcttgcc gttgaaagag 360
acgatagtct gatgacccat gtatacatga agcccatgat ctcaagtga cagtcattag 420
ccaatacaaa tatgcagtgg act 443

<210> 27992

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C2

<400> 27992

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acgccggtgg gcatcgtggg gggcgtcggg atctcatcgg tgtacgacga ggacagcccc 180
acggcgctgg tcgtggaggg cgtgctcaac tcgggtggcg cggggatcct ggtgtacatg 240
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ctgcagctcg gcatcaacgc cttcatgctc gtccgtgccg gcctcatgct catgctggcc 360
aagtgggcct agtttactag ccagccactt tttgctctc 399

<210> 27993

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-C3

 <400> 27993

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 accgggtccgg tatgctctac ggcgagcttg cacggtttgt gctgcgtttg ctaggagtgga 180
 gaagaaagcc aaagaagggg ggcagcattc agggggccaga agcgctggcg ttcgagggac 240
 ctagccggca gtctatcgag gcaccgaaaa cgaacaactg ggacaacgtc tggggaaact 300
 gagatcatgc ctatgggtgc aacgagttga atcatataga agaagtgcaa gggctatgac 360
 ctatgggagt ttgcttgctt tttgattcat caaaaagaag a 401

<210> 27994
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-028-Q1-K1-C4

 <400> 27994

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 ccaagtttat cgtgcctgac aaccagaga aaatcctgtc gcttgctcgt gccaaggcta 120
 gccatcatag agctcttggc tctgcggacc tcacatgtgc cctgcaggca tgcagggggc 180
 gaggcaaccg atggccgctt gtgctggaga tccacgcgac atcagtcgtg cgtgggcttg 240
 gggctgaccg ccttataggc aacttgctga tcgatctgta tgcaaagaat gggctcgtgt 300
 ggcaagcacg gcaagtattc aaggagcttt cttccaggga ccatgtctca tgggttgcca 360
 tgctgtcagg gtatgcacag agtggctcttg gaaaaggaag ctttcaggct ttacagccag 420
 atgcattgga ct 432

<210> 27995
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-C5

<400> 27995

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gccgcattcca ccgcattgctc aagctggggc tgagcattga cgaggacgag gaggctccgg 120
aggctgacac cgacattgcc cctctggagg atgacgctgg cgagagcaag atggaggagg 180
tcgactaagc tgggtttatt cttattggagg aaagagagag aacattcggg ctgttctgtg 240
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ctgctgtctt ctatttaatt ttggtgttgt tttgcgtggc cagtttctca tcgcattcgt 360
ggtagaaaac attcattctg gggactaana aatgtttga ctgggaatng gaacgcaatc 420
ggcaggctctt ctgtt 435

<210> 27996
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C6

<400> 27996

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gccgaatcca ccgcattgctc aaactgggac tgagcattga ctattactga caggcaccac 120
aggctgacac cgacattgcc cctctgaact atgacgcttg cgacaacaac atggacgagg 180
tgctctaagc tgagtgcatt ctcatctagg aaagagagag aacattcgcg ctcatctgtc 240
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ctgctgtctt ctactccatc atgctgcttt tttgcggcct ca 342

<210> 27997
<211> 124
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C7

<400> 27997

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tgaaaatcga ctgtatgatg aggaattatg caaataggaa aattgcgctg ccgtggactt 120
gatc 124

<210> 27998
<211> 518
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-C8

<400> 27998

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tgcnnctcta ctcnacaag gacctgnngt cgctggaacc tggagnngna agttttttca 180
cttttgatcg anngatggag atnacttaat aagtaccttc aagatattta aaaataatct 240
gcattaacaa gaaatgctat nntatggcac ggttcaaggg ttgaccgaa ttttgtggga 300
aattcttaag tcaaagggct ttaagaattg cacctnctga agggcacctg ttactggcta 360
tantgttcgg caaaaggcct ctactttgca agatctagta aagcaagagc gcacaatact 420
tgttatgtgg ataggaataa tcctgtaggt ttgatgcttc tttctgaggt tgctttanga 480
gacatgtatg aactaaagaa gccacgtnc tggacaaa 518

<210> 27999
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C9

<400> 27999

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ttttaggagt cgacagtgtt ggtacgggat cggcagctct tttgactagt tttccattc 180
aaacattgaa gccagacctt atcattaatg ctggcactgc tgggtggcttc aaggccaaag 240
gggcaagcat tggagatgta ttctggcat cagatgtttc attccatgac aggaggatac 300

caatacctgt ttttgacatg tatggaattg gagcacggaa aacttctgca gttcctaata 360
tcttgaagga actcaatttg aagattggcg aattgtcgac tggggattct ctggatatgt 420
ctccccacga tgagaaggtg atac 444

<210> 28000
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-D1
<400> 28000

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caagccctgc acttgagatg cccatggatg tagagatgac ttcaaacaat gttgatacct 180
ttgattcaac tggcaatgat ttactgaca cctctgctct atgtgaatgg gatgacatgg 240
atatatttgg tgacgaactt gagcacattc ttcaacagcc agagcaggac tttcaagtgg 300
accctccttt aacagttgaa gattatggtt atgatcatcc acggttagag caagactgtc 360
agatggaagc acaacagaat tgcaaaaatc ctcaatatgc tgatgtcata act 413

<210> 28001
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-028-Q1-K1-D10
<400> 28001

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gtacactgac caagaggaat cagtatcatc aaacgagcaa gttgatggat cttcattcct 180
gagtaaaaaa atcagtaaaa ccgaagatgc aatttatgaa aacacattcg gtctatctga 240
aggattagaa gaaagtgata gaagatgtcc ccatcatgca acatgtagct ctttctgggg 300
tccttgtaga aatgacacag actttactga tcaagtaact tcaagtatat ctgattaacc 360
gtttgctggt gctttctact tctctgatgg tggttacaga ctctgagaa ctttaactgg 420

tggatcaaga attccgtccc tggtaataat tgat

454

<210> 28002

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D11

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atagggccct ttcgttctaa gtattccaac ttatactact agtaaattca tggatttacc 180

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<210> 28003

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D12

<400> 28003

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agagatgcgg ctggcgcact acgtgaccat gggctcggag tgcactgcct ccctcgctgc 120

caagtacctg gacagcatgg acaggtccga ggtcgggtgg gacgtgcgga tcgcgctcag 180

cgcctacggg tccttcagca gccgagacta cctcagcgcg cagcgtctcc gatgccggca 240

gatgtacttc cacgagaaga tcttcgagac ggccgacgcc atcgtcacgc cgatgacagg 300

ggtgaccggg taccctcctg aagaacaagc gctgaaggac ggggaactgg actacattaa 360

cggaactgcg ctggtgaagg acttgatcgg gggcaacttc ctggggctgg cggcgatcac 420

cgtgcccgtc gggtatgaca gggga 445

<210> 28004

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D2

<400> 28004

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ctcggtagtt tgtcaccagc cgagtctaaa cccacaccag ttgtacctaa ggacatggat 180

ctgctcgacg gtttgtcatc aaatacatct atttctggac atgagaatac aaccaccca 240

tcaataacag cttttcagag tgcaaccttg aagatcacgt ttgatttcaa aatgaagctt 300

ggaaaccac gagagactac aattcatgcc acttttacca atttgacatc tagtactttt 360

acagatttta tttttcaggc tgctgttcca aagttcatcc aattgagact ggatccggct 420

agtggcaaca ctgttccagc taatggaagt ggttcagtc 459

<210> 28005

<211> 80

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-D3

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gccattgggtt nnngtgtttt 80

<210> 28006

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C10

<400> 28006

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tctggccctc caggaccacc attttttatg gtgtactctt atgagcaagg ctcaaatcat 180

gctgcttctt catctgaacc aattgaattt ggatctcttg ggccacttcc tgcagcagat 240

ggtgatgaca taccaaggtc gacacgcaa gtaatgccta atgggtttta tgggcaatga 300

cgtggctgat ataggggtgg ttcctctcat tcatctactg atcaaccatc ctcgcctcag 360

cctcgtcggt agttgagtct tcgtatgatg gcttgatcac ttcgtatgaa accttgcgat 420
agcaatattt tggtagacccc cttgtgatca ca 452

<210> 28007
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-028-Q1-K1-A5

<400> 28007

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tgccaagatg gacaagagca ccgtccatga cgttgtactt gttggtggct ccactaggat 180
ccccagggtg cagcaactgc tccaggactt cttcaacggc aaggagctgt gcaagaacat 240
caaccccgat gaggtgtcg cctatgggtgc tgctgtccag gctgccatcc tgagcgggtga 300
gggcaatgag aagggtgcagg acctgcttct gctggacgtc acccctctgt ccctgggtct 360
ggagactgct ggaggagtta tgacagtgt gatcccgagg aacaccacca tcncaccaa 420
gaaggagcan gtattc 436

<210> 28008
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A6

<400> 28008

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atcatatata ttctctcggt cctggatgac atcgacactg attcctgttt atcatgatcg 240
agcagcagta cgtacgcgca gcgtatgctc atcttattgc gccatgcatg atcatcatca 300
tcatacatca acaattgcac acacttcgtt tgctgcacat gcgatcgccg tgcttcctat 360

cgtatactgc ctgattctgg ctgacaccaa tcacaagcag atggga

406

<210> 28009

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A8

<400> 28009

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ttccgacacc aacgaggacg gcggggatga gatcaaggaa gcagctgctg cccccaaga 120
atccgcccc gagggccagt aagacgatcc gatctccgga cctgatgctg gtctgctgat 180
gtcggggagt ttaccaggac tgtgccgttc ttgatttctt atagcttata ttctagtaca 240
cttcgtgttg ttctcttcgt cacggcgctg gcgtgccggt gcgcgtgcgc cgaagctgcc 300
tgccattgcc attgccattg ccgctgtttt taattaagca cacactctag atgttatgcc 360
cgcatgctat gtttcgattc tcaagttgat aaatgatggc tggatgctgg ttttcgtgct 420
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<210> 28010

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-A9

<400> 28010

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ggaggcaaga atacaagagc cctctttggt gtatgtctgt gtacttcggc aatcaatcag 120
ttgacgaaag gaaggaataa agaggaagag gactcggagc tgcagagctt ggctgcagag 180
gtactgctga agaattacaa gcagcaggct ccatcaaagg cgccccttat cagcagcatg 240
ttgaagaaca tgaaactcag ctgataccaa ccagctccac acattcagag tggcctgatt 300
tgatagatag ttaagttaaa ttgatgtggc ttaatatatg ctntgttttt ttataaaaaa 360
attgtggcac caacattggg caggcttaaa agtagatgc 399

<210> 28011
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B10

<400> 28011

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tcgctgcgtc cctcctcgct gccgacgcgc ggccgtgcc aaccttcttc gtcgccttcc  180
gcgccgaccc caaccccagc agaggcgacg acgctgtacc ccaccacctc gccgccgccc  240
aggacgccgt gctgcacgct gatccagggg ctggcggacc tggaagcggc ggtgtgcctc  300
tgcaccgtcc tcaaggccaa cgtcctgggc atcaacctca acctgcccac caacctcagc  360
ctcctcgta actactgcgg caggcgcgtc cctcgggct tccagtgtt ctgactatca  420
cacgccatc gatgatcga tctggaggct aaat                                     454
  
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<210> 28012
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B11

<400> 28012

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ttaataacat taagatagct gacgagctga tggacttggc aatggagacc agcaggctctg  180
aagacagcgc caacagcttt agcgtctcaa cggcgagtag caaccggaag agagcataca  240
gaacaagccg tgcacatttc tactgggtca cccgagaagc cggatccttt gaatgggtca  300
aaggggtgat gaatgaggtt gcagaaatgg acaagaaggg tgatcatagag ctgcacaatt  360
acctcactag cgtttacgag gaacgcgacg cacggacaac tctgctgtcc atggtccaag  420
ctctgaacca cgccaagcac ggcgtc                                     446
  
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<210> 28013
 <211> 452

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-B12
 <400> 28013

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 agcgtcgggg ccgtggaggc gctcaaggac caggcggggc tctgccgctg gaactacgcg 180
 ctgcgctccg tccaccgcgc cgncaggcc aacgctccca gcttcgcgca ggccaggaaa 240
 aagctggcgc cgcccgccgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300
 tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttcctgcaac 360
 cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac cactgtaac 420
 ataggagtat agcaccacga tgatgatgat ga 452

<210> 28014
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-B2
 <400> 28014

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 tgatctaatt gactccgaac ctacactgat caaacctctg gtaaaatgaa ctgcacgtga 180
 tggaaaacca taggaattgc tgagaggtcc actctattat gtccctgggtgc tgctgttcag 240
 cgtttttagtc ttctggcgtg agtcccccat cgggatcgtc tccttgctga tgatgagcgg 300
 tggcgatggt tttgctgaca ttgttgggag gaggtatggc tcagcgaagc tgccattcaa 360
 tcggaagaag agctgggccc ggagcatctc gatgttcatt tctggtttcc tgctgtccgc 420
 gatgatgatg ctctac 436

<210> 28015
 <211> 428
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B4

<400> 28015

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ccgtgcgcgc acgcccccg cccggcctcc tccgcctcgg cgcgcccgct cgcgccccctc 120
atcgccgcgc agctcaacta cctcctctcg cactccaagc tgcccattag ggtggtacag 180
atctgggtccg gctgccgcaa cggtcgccct gccgatcggg tcagggtcgc catccccctc 240
tgctcgact acgtccactg ggatttcgtg tacaatgcgc tgtctcccaa ggtggcacca 300
gacgtggtgt tcgggtccgga ggatgagagg ttccagccgc tggtcgatta cgctgctgct 360
ggaaatggcg ataagagctg cttggcgcgt tgggattgcc gcgccccga gggactccat 420
gcgctcgt 428

<210> 28016

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B5

<400> 28016

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ctccgtcttc gctccctccg cagcgtcaga tcggccgtcg ctccgccgagc cctagcgccg 180
ccgatctcag tccgtaccag tcttgcaa at cgggggtcgcg ccgcggcggc aagaacgatg 240
gccgaggagg ccaagtatct ggagacgggg cgggcccagc gctccgtgtg gctcatgaag 300
tgccccccgg tcgtctcccg cgcttgcaa gccgccttcg ccttcgcctc ttcctccgac 360
gccgctaacg ccaaccccg tgtc 384

<210> 28017

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B6

<400> 28017

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tcatggatag cagggaggca tcatccaaaa ttctgtcagc tcgttgacca ctatttatat 120
gttccccctt tagattgaga ctatgaatga tcgtatgcta atgatgtctg gtgcacagta 180
cattgcgctt gttaaccact atgtacatgg cttatttagt gatagtgtaa tcaactcaact 240
gtcggttgac cgttcaagtt cataacattg aggttctttc tttgctgcat tggctctctaa 300
agagccacaa catctgggca tctggctcta tataaggcgg cgttccttgt agcttcacac 360
tcaccactag cctcggtta tataaccttt ctactgttag cacaggctta ttgcatgtgc 420

<210> 28018

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-B7

<400> 28018

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agcgggccgt ggcagttggg tgattacgac gaagagagat gggcctcctc gacaagctgt 120
gggacgacac cgtcgcaggc ccgcgcccgg acaccgggct cggccgcctc cgcaagcagc 180
ctgtgcgtcc cgccgccgtc aagatcagtg atccggccgg ggacgctgcg gcgttcgtgc 240
cgccctcgcc ggcttcgggt agcgaggaga cgccggtgaa ggtgacgcgc agcatcatga 300
tcaagcggcc cgcggggtac ccgtcgtcgc cgaggagcgc ggcaagcacg ccgncggcct 360
cgccactggg gactaccccn gccatctcgc cgtttgccgg cgccggtggt cggttcagaa 420
ggaaatcatc gtccgacgca t 441

<210> 28019

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B8

<400> 28019

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ggccgctacg cgcagcgcgt cggcagcggg gccccctctt acctcgcggc cgtcctggag 120
 tacctcgccg ctgaggtcct ggagctcgcc ggcaacgctg ccaaggacaa caagaagacg 180
 cgcacgtgcc cgcgccacgt gctgctggcg atccgcaacg acgaggagct cgggaagctg 240
 ctgaccggcg tgaccatcgc ccacggcggc gtgttgccca acatcaaccc ggtcctgctg 300
 cccaagaaga cggcggagaa ggcgtccagc ggcgggagca aggaggccaa gtcgccaag 360
 aaggccgtca agcccccaa gaaggcatag gggttggagg cggatccgat tgtgtcatgt 420
 gta 423

<210> 28020
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-B9
 <400> 28020

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 tgatattgaa aggtctgtgt agccatgaaa aggttgaaga ggcttactct ttgtttgttg 120
 agatggtgga taaggctgag ttgaggcctt ggcaaggcac ttgccagcat ttaattggtg 180
 acttgctgag ggtaaacaaa cttgaggagg ccctggccct tctcaagaca atgaaaacct 240
 gcaagttccc accttttgcg gaccggttcc ctccttacat tgccaagtat gggacagttg 300
 aagatgcaag gaactttttc aaggcattga cagtgaaaac ttctccagca cctgctgcct 360
 acctgcatgt tctcaagttg ttcttttgcg gaggaagata ttctgaagct caagatttac 420
 tgtacaaatg ccctatttac a 441

<210> 28021
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-028-Q1-K1-C1
 <400> 28021

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agctgtggta cgacaccgtc gcaggcccat gcccgacac ctggctctgt cggctccgca 180
 agcagactgt gcgtgccgtc gccgtcaaga tcagtgatcc ggccgtggac gcttcggcgt 240
 tcgtgcctgc ctgcacggct tttggtagct 270

<210> 28022
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-028-Q1-K1-A4
 <400> 28022

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 ccccatcgcc gccaaagtgc agatcttcgt gaagaccctg acggggaaaa cgatcacgtt 120
 ggaggtggag tcctcggaca ccatcgacaa cgtgaaggcc aagatacagg acaaggaggg 180
 catcccgccg gaccagcagc ggctaattct cgcgggcaag cagctcgagg acggccgcac 240
 cctcgccgac tacaacatcc agaaggagtc caccctccac ctggtgctcc gcctccgagg 300
 tggcgccaag aagcgcaaga agaagacgta caccaagccc aagaagatca agcacaagca 360
 caagaaggta aagctcgag tgctgcagtt ctacaagggtg gacgacgcca ccggcagggtg 420
 acccgncttc gcaggagtgc cccaacaccg a 451

<210> 28023
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G9
 <400> 28023

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 aaaatatccc cagatagcta ggctcggccg ggacgtacgc atggagggtgg aggaggagct 120
 gcctgctagc gctgatctta ccggtggctc aaagcaggcg accactacga cgcccttcta 180
 cctcgctta gatcacacag cttccgccag gtcgtctcca ccgccggcag aggcgccgcc 240
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tatgtccac ccactctatc cggctgtctt gagagccttc atagactgcc ggaaggctcg 360
agcgccgcca gagattgtcg gccggctttc cgccctcgct gatgacgtcg aaatgaattc 420
agacgacaga caagaacagc gacgagcagt agaccagag ctcg 464

<210> 28024
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-H1
<400> 28024

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gagcacctca tgtgcgaggt cgagggccac caccacctca cctccgccgc catcatcggc 120
cacgacggca ccgtctgggc ccagagcgcc gcattcccgc tgttcaagcc tgaggagatg 180
gccaacgtca tgaaggactt cgacgagccc ggggttcctg ctccgaccgg cctcttcctc 240
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ggatctggag gcataaccgt gaagaagacc ggtgaggcgc tgggtggtcgg catctacgac 360
gagcccatga cccccgggca gtgcaacatg gtggtcgaga ggctcggcga ctacctcgt 419

<210> 28025
<211> 274
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-H10
<400> 28025

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tctcatccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatg 180
ataaaaaatgg gatgcctcct aatggattca acaaattatt acttggacat tttatcccaa 240
aactattcat tagagctact taaattaatt tcat 274

<210> 28026
<211> 384
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H11

<400> 28026

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gtcatggtgc gccgcgccgc gcccgactgg ctcccccttcg tgccgggagg gtccttctgg  180
gtgccccccg tgcgccgtcc gcacgggggtc gccgagctcg ttggccggat cgcggctgct  240
gggggacact aatggggcgc ctttgccgtt tgggtgctcgt tcgaagtctg attctttatt  300
tctctttttg attaagtttt cttattttct tttttgtttt attttttttt tgtatggatt  360
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<210> 28027

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H12

<400> 28027

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aggcggacgg gaaccggcgc ctggaggagg ccatccacgg cgacagggag cgccgcgccg  120
cgcccgaacc gctccccgtc gtgccgggag gg                                     152

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<210> 28028

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H2

<400> 28028

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cttgtgtgac tcagtgccgc atcagaggta gcagggtggt attcgtgagc ttctgtgata  120
agtctaaaca gatccagaag tttgctgtac gtttcccaca gccctgtgac gcagattcgt  180
tcttaagttg tgtggaatgc tcatgctgta gcagcgtatc catggacatc ataccatttg  240

```

gaaatgatta tgtgtgtgaa gatccatcag catctgaata tattgcttct aatggacttc 300
atcacaggct ggatgatgct tcaaaccttg aggagcaatg ttctgatcac acaatagatg 360
aaccaccaat gaactaccac taggaaac 388

<210> 28029
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-H6
<400> 28029

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tggttccatg ctctcttcgg ccatctccat gtcaatttgc tttgcaaaca atataatatc 180
agcgtgccgt gcccttgtag atttccaaat gggttatatgc atatgtacta ttgaaattgt 240
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tgtattc 307

<210> 28030
<211> 437
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-H7
<400> 28030

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gattggttgc agatctagaa gaagatgaac aacctaaaaa gaaggttaga ttagggagcc 180
cagcggctca atggatttca gtttataatg ctaggcggcc catgaagcag aggtaccatt 240
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gtttctggtc tcaggtttat gagctctcac cagttttcct tcacaaggac tggattatgg 420
agcantggga gaaaagc 437

<210> 28031
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A10

<400> 28031

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taaacaaagc cagcacattt ggcatcattt ggctatgttt ttccgagatg aactgttatc  180
ttggctcgtg aggcggcctc tgggcattcc atcagtcctt gtcgctgctg gaatgatcaa  240
cccatcagat ttccaacaga aggtggtaaa caatgtggag catgtcatca gtcgtatcaa  300
gtcaatatcg ccacattgtc tggctgagga ggaggagaat gcaaccgagc cacctcagtc  360
ggtacaaaga ggcgtcaccg agctggtgga agcggcattg tcgtccagga acctgtgcat  420
gatggatccg acgtggcacc catggttctg                                     450
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<210> 28032
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A11

<400> 28032

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ctaaacaaag ccaacgcatt tggcatcatt tggctatgag cttcccagat gaactgttat  180
cttcttcgtg aaagcggcct ccgggcattt catcagtcct tgcgctgat ggaatgatca  240
acccatcaca tgaccaacag atggtggcaa acaactgtgc acatgtcatc agtcgtatca  300
tgataatctc ggcacattgt ctggctgacg aagatgataa tgcaac                                     346
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<210> 28033
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A12

<400> 28033

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tcctaaacaa agccagcaca ttggcatca ttggctatg tttttccgag atgaactgtt 180
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caacccatca gatttccaac agaagggtgt aaacaatgtg gagcatgtca tcagtcgtat 300
caagtcaata tcgccacatt gtctggctga cgaggaggag aatgcaaccg agccacctca 360
gtcggtagaa agaggcgta cagagctggg ggaagcggca ttgtcgtcca cgaacctgtg 420
catgatggat ccgacgtggc acctatggtt c 451

<210> 28034

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A2

<400> 28034

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aatcaagcaa gacaagatgg tgaagctcgc cttcggaagc gtccggcact ccttcagcgt 180
cacctccatc aaggcctacg tggccgagtt catcgccacc ctctcttcg tcttcgccgg 240
cgtcggttcc gccatcgctt acgggcaact gacgaatggc ggcgcgctgg acccgccggg 300
cctggtggcg atcgcgatcg cgcacgcgct ggcgctgttc gtgggcgtgt ccgtcgccgg 360
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<210> 28035

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A3

<400> 28035

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gttgctttcc tctgcctttt tatgcttggt aaagtggaag attgcataca gttgcttgta 180
gacagtagcc gtatacctga agctgcacta atggcgcgat cgtatcttcc tagcaaagta 240
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tctctggcag atccttctga atatccaaat ttatttgaag actggcaggt tgctctaact 360
gtagaaaaaa gcgttgcttc tcagagggat cattatctc ctgctgacca atacttgaat 420
catgctgaga agtcagacat gattcttgtg gaagct 456

<210> 28036
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-G8
<400> 28036

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cgtgtcgagc gagaacgaga agacaagagg aagccaaaag gagaaccgag ttcgggaggg 120
agcggatggc aatggctctg cttccgctat tgctctcggg cctcatcgtc tcctgcgtcg 180
cgcagtcgcc ggcctcgctc ccgtacgcgt caaatgctcc tccggtcagc gcctcggatc 240
cgcggggctc tgctcgccca ccgacaactg cggctctcggc gcctcagggc tctgtcgcg 300
caccgacgac agctgcggcc tcggcacctg aggttctgt agcgccaccg atgacaacgg 360
cggactcggc gccgcatgcc tt 382

<210> 28037
<211> 481
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-F3
<400> 28037

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gggacaggat ggcaatgagg tgttctttcg cataaagagg tccaccagc tgaagaagct 120
 gatgaacgct tattgtgacc gccagtctgt ggacatgaat gccattgcgt tcctgtttga 180
 tggccgcagg cttcgcggcg agcagacccc tgatgagctg gagatggagg acggcgacga 240
 gatcgatgcc atgcttcacc agaccggagg cagcgttcct agcaccacct aaaagcatca 300
 gtcgcggagc ttcgttttgc tctccgcctt gcgtagtagt aaacaaaagg gaaaaagtct 360
 ttttaaggaa cttgtgatgc tctggctcct tgtgccattg ctgagggaca ttcctaggnn 420
 cttgttagta gtatggtttg gtacccttgt ctgtcatcac tcgtttatct atccctaata 480
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<210> 28038
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-F4
 <400> 28038

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 acagcatctc agcgccgccg ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 120
 gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 180
 tggctactctt gcaccaactg gtcttttcgt tggagggtact aagtacatgg tgatccatgg 240
 tgaacctgga gttgtcatcc gaggaatgaa gggcactggg ggcattacta tcaagaaaac 300
 cggcatgtcc tcgattatcg gtgtctacga ctagccaatg actccagtgc aatgcaacat 360
 ggtggtggac aggctaggcg attacctgtt tgagcagggc 400

<210> 28039
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-F6
 <400> 28039

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aggttgctgt ccgcagaatg gttgactatt ggacatatga ctcaaaaaaa ggaaactggg 180
 tatgtggggc tgaaaaacca aggagctacc tggtatatga actcccttct acagacacta 240
 taccatatac cctacttcag gaaggctgta tatcatatgc caaccactga aaatgacata 300
 ccatcaggaa gcattccctt ggcgctgcag agccttttct acaagctcca gtacagtgc 360
 agtagtgtag ctacaaaaga gcttgacaaa tcttttggtt gggacacatn atgatctttc 420
 atgcagcatg atgtacaaga gctcaac 447

<210> 28040

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F7

<400> 28040

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 gggaggcgcc caagcacgac tcgagcgagg ggcagtaaag ccggctttac atgcctagaa 180
 gctagtacct agtgtttgcg gctgtctaata gacattatgc aatgtgatct ggaccctggg 240
 ttcttgggtg cgacgcttgc agcagccgctc ttatgattat ttgtcgggaa aatttggggg 300
 ctccccatat gagatgctgc cgggcaagac ctgcgccatcc cccacctcgt ttcaggcggt 360
 ggacgctgga gcctgggtccg gttgggttgg gaagccccctt aaactggtgt cgc 413

<210> 28041

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F8

<400> 28041

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 tgtggggagg cctatacgag cccatgaatg ccacgtctac acttacagcg cgatactgct 120
 gttgtctaata tgcttattct agaggctttg cttgcaagca accaagcatg tgtgttggat 180
 ttatcatcct gtctagtatg atggaccctg cttggatagt atgactaata thtagagcaa 240

agctagtacc taaaccaaga tttttggtaa ggggcatgta tacaggatta tagccgatac 300
 tgattgctgc cggttgctgc tgctggaaca atggcagaga atgtataatc gggctgttat 360
 tggttcctaa atttcgtgat gtggagaaat gtaagacgag aaccgc 406

<210> 28042
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G10
 <400> 28042

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 ggggtgctttg gataagttct ttaggatttc gtatgtgtta acatgacatg ttatctgacc 180
 cttgttttaa gcagtcgtaa atactactta tgtttccttt tctgtggtag ctttctgact 240
 tctgagtatt gatgggttga tgtactatgg acatatcttc acacagagct tgagatggac 300
 tcccccaaga tctctgaaaa tgaagatgtt gggcatctga tcacacccta agaagcctgc 360
 atccgcatag cataggtagt 380

<210> 28043
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-027-Q1-K1-G11
 <400> 28043

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 gagtatcact aactcggttg ccatgatcca gccttccttg atatcatttt cctttgattc 120
 acctccatct ccggtgtttc tagatgtggc atcattagcg gcagatcgta tactgctact 180
 tgatgcgtac tttagtgttg tcattttcca tggcatgaca attgctcagt ggagaaacat 240
 gggttatcag aaccaacctg agcatgagca attgcacaa ctattacaag caccacacga 300
 ggatgcgcag atgataataa aaggtcgatt tccagttcca agactagttg tctgtgacca 360
 acatggctca caggcaaggt ttttgttggc taagctgaat ccatcggcca catataactc 420

agctcatgat gttgctccag gttccgacat cattttcac

459

<210> 28044

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G12

<400> 28044

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ggggtcgttc gcttgtgggt tcttcttccc tcttggttc ataaaggtgg actaatggta 120

gaacaatggt gtcaatctca gtcgt 145

<210> 28045

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-G2

<400> 28045

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ccccttcatt gtccttatca tcgccattct caacgacggc actatcatga ccatctctaa 120

ggacagagtt aagccgtctc cggtgcccga cagctggaag ctgaaggaga tctttgccac 180

gggtatcgtg cttggaagct acctcgctct gatgactgtc attttcttct gggctatgca 240

caagaccgac ttcttctcgg acaaattcgg tgtgaggctg atcagggaca gcgagcatga 300

gatgatgtcc gcgctgtacc tncaagttag tatcgtgagc caggctctga tcttcgtcac 360

ccggtcccgg agctggctct tcgtggagcg ccttgccctg ctctgggtca ccgcgttctc 420

gctcgcccag cttgtcgcga ccttnctcgc tgtctacgcc aact 464

<210> 28046

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G3

<400> 28046

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ccgcgccatc tcgcgtgct cctgcccctg ctctgtctgg cctcgccggc ggccacgcgc 120
ctggcgtccg ccgcctgcgc gggcgagaag ttcccggcgg ggctgcgta cgcgtcgtgc 180
gaggacctgc cgaagctggg cgcgtcgtc cactggacgt acgacgcgtc caagagctcc 240
ctgtcgggtg cgttcgtggc ggcgcccgcg gcggctggcg ggtgggtggc gtggggcctg 300
aaccctacgg gcgaaggcat ggccggcgc 329

<210> 28047

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G4

<400> 28047

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actgccgagc gagaacgaga agacaagagg aagccaaaag gagaaccgag ttcgggaggg 120
agcggatggc aatggctctg cttccgctat tgctctcggc cctcatcgtc tctgcgtcgc 180
cgcagtgcgc ggccctcgtc ccgtccgcgt caaatgctcc tccggtcagc gcctcggctc 240
cgcggggctc tgctcgcgca ccgacaacgg cggctctcggc gccgcagggc tctgtcgcgg 300
caccgacgac agctgcggcc tcggcgccgc aggtctctgt agcgccaccg atgacaacgg 360
cggcctcggc gccgcatgcc tctgtcgcgg caccgacaac ggcagcctcg gcgccc 416

<210> 28048

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-G5

<400> 28048

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gaatctgaga gagagagggg aaagggcgaa ggaggcgcat gcaggcatgg gctccccttc 120
ctccctcccc gccgcggcgg cgctcgtgct cctggccctg ctgcgccggag cccagtgcgc 180

cgaggcccag ttcgacgccg cggacgccgg cgcggagaac ttcaacacca gcgaggccgc 240
 cgtgtactgg ggcccctggc agaaggcccc ggccacctgg tacggccagc ccaacggcgc 300
 cgccccggac gacaacggtg gtgcgtgcgg cttcaagcac accaaccagt accccttcat 360
 gtccatgggc tcctgcggaa accagccatn gttcaaggac ggcaagggat gctgctcctg 420
 ctacaagatt cggcgcagga agga 444

<210> 28049

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G6

<400> 28049

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 gaaccgtggt cgggagggag cggatggcaa tggtctctgct tccgctattg ctctcgggtcc 180
 tcacgtctta ctgcgtcgcg cagtcgccgg cctcgtcgcg gtccgcgtca aatgctccta 240
 cggtcagcgc ctcggtctcg aggggctctg tcgtgccacc gacaacggct gtctcggcgc 300
 cgcagggctc tgctgcggca ccgacgacag ctgctgcctc ggcgccgcag gcttctgtag 360
 cgccaccgat gacaactgca gtctc 385

<210> 28050

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G7

<400> 28050

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 tggacgggct ccttatgtgc taggtcgagg gccaccacca cctcaccttc gccgtcatca 120
 tcggccacga cggcaccgtc tgggcccata gcgcgcgatt cccgctgttc aagcctgagg 180
 agatggccaa cgtcatgaag gacttcgacg agcccgggtt cctgggtccg accggcctct 240
 tcctcggccc caccaagttc atggtcatcc agggcgagcc cggcgccgct atccgcggga 300

agaagggatc tggatgcata accgtgaaga agaccggtga ggcgctggtg gtcggcattt 360
acgacgagcc catgaccccc gggcagtgc acatgggtgt cg 402

<210> 28051
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-F2

<400> 28051

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cgtattcttg atgataatcg aagcacaatg acaccagaaa cacttgaatg ctttgtatgc 180
tgtaaggatt gggttatatga atacccaaatt attcaagctt agttgatctg acttccttca 240
aacatgttca acagtacggc attcaaggga gatttatgca tcattcgggtg ggctcctgta 300
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actgatacgc atgggtgtaaa actgccgtgt tatgtggttag atcgggtgtgt gtactgggtt 420
ccttatgtgt aaaactgact 440

<210> 28052
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D6

<400> 28052

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aacatcgtga ctcttgccaa agagcggaaa tagtgctaaa ctgtaccaga acgaaactaa 180
ggaacttaac actcaaggct ctctcagtcg cttctgaact tcaagcactt gcatacaatc 240
tgccgttatt tcgaaagagt caggatgtat cccggttgcg aacat 285

<210> 28053

<211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-D7

<400> 28053

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 cgccggcgaa tcgatgggct actggtggca ccgcgctcgtg ctgccgggtgc ggccggcggtg 180
 gctcggcgctc gcgtcccgtc tcgggggttcg ccaaaccggg ctgtggaggc tgcggcagga 240
 ggtgagcacg tgcgagtacg aggacgtgca cgtgatgtgg gagatgctga gccgnaccac 300
 ggccggcggtg ccggcgcccc cgcccactag gcggcagcac agccgggttc ggccgcagcc 360
 gctgccgtgg tgcgacag 378

<210> 28054
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E1

<400> 28054

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 aagcgaggca aaataaaaaa aatcccaaac aaactactac ataacaaca caaactaact 120
 aacaccaaca aaatccatac tctactaatg tcaaccaaac aattctacct cttcaagcta 180
 tccaatctcg tcatctcttc ccgcttctaa tttctccaaa cctatct 227

<210> 28055
 <211> 163
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E11

<400> 28055

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atttgogaac gttcaacatg gtatgtcttt atttgtgtga ctt

163

<210> 28056

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E12

<400> 28056

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gtgcttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 240

aaaaaacact aaaataaaaa aaaaattaat tttaaaaaaa cacattaaat tacaaaaaaa 300

caaaataata tctctcattt tttatataat caacacctat tattctccta tttctctata 360

tttttta 367

<210> 28057

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E3

<400> 28057

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ggccgcccgg ggtggctacc gtcgctggga ttgccttcc tcagcttcaa ctgcccgatg 180

gccgtctacc gtcctggga cgaacctac gccgtcgct tcgtctcgc cgcgtacgcc 240

gccctcgtcc tctcttccg ctgcctccac cttctggagc gccgtcggga ccagcgctc 300

aagctcgccg tctggggcct ctccacgctc ctcaactca tgttctcgta caagatcgcc 360

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gcgggattct acgccttctt cgtcggccgc ccggag 456

<210> 28058
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E4

<400> 28058

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 tcgctacgag ctcaagttgta ttggactact tcattaccgc gccaaaatgc tcgtgcgtat 180
 gtctgcaatc tacctcctgt aactgatgaa aatatgttgg ctgaatatct tgccaccata 240
 tgcttgctaa agaaggacaa atggactggg cgccataaaa tctggatata cagggacaaa 300
 gtttactaat gaaccaaagg gtgatgcaac agtcacctat taggattcac a 351

<210> 28059
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E5

<400> 28059

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 cgctggtttg gtcactacga tcgggccagg gggcgttcct tgtgttgagg gtgttcattc 180
 cgtgttatct tcccgtcagt catgcgtcct gtcctatgtt aacctacata agaaagtgat 240
 gtgggtgtcca ctttttagtga aactactgtc tgctgttaaa acctgggttg tctcagaacg 300
 atgattttcg tgtgc 315

<210> 28060
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E6

<400> 28060

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gttgcggtcg ctctggctgt ggtggtggcc ggggcctgcc ttgccgggcc ctcggggcgc 180
ggacggcgcg ggcgagtgt gtgcgacgcc gtcggacacg gtggcgctga ggctggcgcc 240
gtgcgcgtcg gcgggcgagg accccggctc cgcgccgtcc ggctcctgct gcatcgcggt 300
gcacgccatc gggaagcaga accccagggtg cctctgcgcc gtcattgct 348

<210> 28061

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E8

<400> 28061

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ttcgccgtaa cgagatcaga tggctgggta tatgtcaaga gggcccaaaa atggttctgt 180
gtatgtctgc aatctacctc ctggaactga tgaaaatatg ttggctgaat attttggcac 240
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ttcagctgct gtggaatggg tcgataacca ggatttccat gggagcacta ttcaggttca 420
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<210> 28062

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E9

<400> 28062

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gcttccgagg gtccactcaa gggatatcatg ggttatgtgg aggaggatct ggtttctacc 180
gacttccttg gtgacagcag gtcgagcatc ttcgacgcca aggcggggat cgctctgaac 240

gaccacttcg tcaagcttgt ctctgtggtac gacaacgagt ggggctacag caaccgcgtc 300
gtcgacctga tccggcacat gttcaagacc cagtagaggg ttttccccct gcttctcatg 360
gatggttgct gcttgtgtat gccgagaata aatgtggatg tcgccagggt catgctgagt 420
ctggacatgt tttgcacttt t 441

<210> 28063
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-F1
<400> 28063

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tgctgccatg gttggcatgc ttgctgatcc gaaggaggcc agggctggta tcagggaaat 180
ccacttcttg cccttcaacc ctgttgataa gaggactgct ctgacgtaca ttgatgcoga 240
tggcaactgg caccgtgtca gcaaggggtgc tcctgaacag attcttgacc tgtgccactg 300
caaggaggat ctgaggcgga aggtgcactc tattatcgac 340

<210> 28064
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-027-Q1-K1-F10
<400> 28064

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ttggcaaggc agccatgaaa cccctcagc tgccggcagg ggagggggcc tcctgggctc 120
acgaggtcaa gcaggccctc cgtgagaaac tccggcgctc ctacggcgcc ggagctgcct 180
ccgccacacc ggaggccagg ccggccggcg aaccaagccg tggcgctgag tgccgcggct 240
cggcgggcca ggaccccata aggagagtca tgttcttggc tccttggggg cacacataag 300
aacacatacc ggccggccga gatctgggca tgcaagcttg catggccatg tcttgggtcag 360

tcagatctgc anacaaccaa actgtataaa agaactggag cctgtcttgt aaatcatgga 420
ac 422

<210> 28065
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F11

<400> 28065

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aagcagaaaa cactagcgtt tcctcaccag ggcgtccatc ccagcagcca tggctatggc 120
gtacaagatg gcgacggagg ggatgaacgt gaaggaggag tgccagcgct ggttcatgga 180
gatgaagtgg aagaaggtgc accgatttgt ggtgtacaag atcgatcagc ggtctgtcgc 240
tttgctggtg gacatggt 258

<210> 28066
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F12

<400> 28066

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gaggaagacc aaaatggtgg gagcaatgca actactggag gtgctcggaa aaaaaagggc 120
gggcatgtaa gacaatcaag tgctactcat gatgccattg ataaaaatta tagtggcagt 180
tcagctgaag gtttaaggaa caagagacag aagtctgctg ctcaaagcgc ttcggtaggc 240
agaagggaag gggtgaggca acgatctgat gccaagcaac atccagatgc agccgagggc 300
agtacagaac cactcgtgta tgtacctgga agcgatgggtg cagctcaagg ttcaatgcaa 360
catggaactt cggtcctca taccgaaata aaagcgatgg tcaggaacat actgttcaag 420
gaca 424

<210> 28067
<211> 191
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D5

<400> 28067

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ctttcatgac gtgactgttg actcctcgca acacaatgtg actgtgactg tcaccgtgga 180

ctcctacact c 191

<210> 28068

<211> 489

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-C1

<400> 28068

cccacgcgtt cgcccactcg ttcgcccacg cgccggggac gagatggaca catcaagccc 60

tgcagcactt gtcaatgcac agatgctgaa catgtttgtt gggcgaagag tgcgcacggt 120

tgttcaagtc caacacaatg aagggtggagt gcttgtcggg cagtccaccg atgggcacca 180

gttgtgtgtc aaaagtgcc aaggacgtccc cgtatcacat tttatggagg tttatggaat 240

tgctgaaaac agccagacca tccgtgctga agtttgaca gattttgggc ccaactttga 300

tcccaagggt tttgatgagt tgtgcaagct ggcgagtggc aggttcaagc acctgttcct 360

gtagagataa tcatcgcatg gaggatcttc agccaactga agcttggttg aaactgaatg 420

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taccctggt 489

<210> 28069

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C10

<400> 28069

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tgccctttat gcgtcctggt tttttatttg tcatcttctg ctgtatcatc ctttctttga 120
 actatatttt catgtggtac atgatacctt ttgttacctt cgccacagta ctgctcacga 180
 atagcatttt gagccatttt gctatgcctt ggaat 215

<210> 28070
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-C11

 <400> 28070

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 catgaccccc gggctctggat ggctggggcg ctcttcgtct atttcttcag cgtctcgggg 120
 ggcatgtatg ggattatcag gcacacgccc atgttcctca ccgaccgcgc ggatcccaac 180
 aagctcgtgt tcttctacca ggggtcaggg atgcagttgg gggctgaggg gtttactgtc 240
 ggggttctgt acacactcgt ggggtctcatg atcgtctgtg tgacacactt gttggtgaag 300
 gtggagagcc tgcagacaca ggccttgcg atgctcgtg tcatggtggt cngtggtgg 360
 gctgttagga aggtgatcta cttagataac tggaagactg gctatagcat tcataccttt 420
 ttccgagcag ctggaggtga aattcttgct ggg 454

<210> 28071
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-C12

 <400> 28071

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 ctgttcttgc ggaacgacct tctccaggaa ggacaagctt tttggacatg ttgcgctttt 180
 ccaaggccac acacctgcgc tccccgtgga agacggggat gtaccagaag gttcagagca 240
 gcctcaggac ggcgaaccaa cgaatgaaat ggcgaggagc atggtgtata gcttcccgtg 300

tagctcgtct gatggtttat tgaacctcga catgaaaatg gctgatgacg tgcgtgggta 360
tctcttgccg cttagctttg ataatgcttt ggcgcggttg acgactttac tcggcctgga 420
tttg 424

<210> 28072
<211> 169
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-C2
<400> 28072

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aaaaacgaag aaaatataaa aatccaacta aaaaataaaa acaaataact aacaaaacat 120
tcaaaacacc caaccataaa ctactaaaca ataaaactaa acaacctaa 169

<210> 28073
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-027-Q1-K1-C3
<400> 28073

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cggcaacgga ctacctacgg gctggtggcg tagcacggtg cgacggctcc ctttctaggc 120
aagctcgacg ggggcaggtc cggctctccc ccatcgatgg cgcgacggtg tttgggcat 180
gcggccagtg gatggcgcg gcccgaagcg aactctgggc tgagccagct tccctctccc 240
caagtgacag tgcggtggac tctccccctg accctctccc taggtgctca tggtcagcag 300
tgccaccctc atcccactcc tggccacctc catttggtgt gtagtggcgc cctcatcccc 360
ctcccagcct catgttcccc aattgatgta tgtgtgtcaa tttagtgatg atgtcgcttg 420
cctcatcatc taccggtctc actcggtgtt caaccgaac taggaatg 468

<210> 28074
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C5

<400> 28074

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gggtgga aaa gaacttgaag ctgttgaatc agcagagatt gatgtggaag atgaaattgg 120
acacggtgat aatgaggata ctcaagctct tgaagactct gatgaggaaa tggattctga 180
cgaggaacag cagaggatatg atgcccagct tgaagagatg cttgatgaag cttatgagcg 240
ctttgtaact aaaaagggtg gtgaaataaa gcaagaacgc aagcgtgcaa aacgaataaa 300
tcctgacgct gatgcagaac tgtagaggg aggtgaagat gatggtgatg ttgaaatgga 360
tcaagatttt gatgaagatc aagatcaaga ggccaacccc cttctgtttg ccctagatga 420
agcagagcca ac 432

<210> 28075

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-C7

<400> 28075

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catcttcggg ccattcgccg gcgacgagca ccaccaggtg tgccaggttg accgagctat 180
ggacagcctg tggcatcttg gggacgagct ccgcgggcag cccaaggtgg tggaggaccg 240
ccagtgttct ctcatgacgt ccaagctggc ggagatcacc aggtccaagg gcgagaggat 300
gaacaccgtc cctgaagcca agcagtggga caagacgtcc taccagcttc acgacgacag 360
caggatgggc cacatcggcc tcatgaacct ggatctcaag atgaacgagg ctgccgncat 420
gaagctcccc ttccgtggca tgccgtataa catga 455

<210> 28076

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C8

<400> 28076

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gtgggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaataat aaaaaactat aactatataa taaagaaaaa 180
ttaaatggaa ctaaatgaac gtcaacacac acgtacatga caacgaaaac cctatcgtta 240
gacaacttat ttaaaattga gaaaaa 266

<210> 28077

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C9

<400> 28077

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gggaaatgaa aaccctttcc aaactagctc taaaggtagt taaactaaac cccattttcc 120
aaagaatttg gaaaatctag ttcattctct aaatcaagat aatttaatac attcatttta 180
tacagccaaa ttaatttaag gtcattcgac tattatcctc cgttacccaa ttggttggtga 240
cgctggttgc ttgcatttca ttttatacac aaattatccc gaaccacgtt caactaaagc 300
acaatttgat gcatcgcaaa aacaaaacat aaaggcatga taacatcttc aatttccaga 360
caatgggtga atggtccttt agttgaggcc caactaatt 399

<210> 28078

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D1

<400> 28078

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aaagccaata ttaacaaca acaactacta aaaactatcc tacaccaaaa acccaaaata 120
attcttccaa ccattctcca tcaactagca ccaccatttg ttccactttt acctaactat 180
ttacagcctg ttacatcttt tttactagct cctcattcag ccctaggtgc tttatgacct 240

acagtgatct ctcatgacat ccaagctttc ttacatcacc att

283

<210> 28079

<211> 442

<212> DNA

<213> Zea mays

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<400> 28079

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ggatatgtgg aaatcagtaa agataaaciaa gttaacgttt caaggtgtga agttatgtgg 180
ccgttgcaag gttcctacaa ttaaccaaga cactggaata cctagcccta ctgaaccaac 240
tgaaactctg cagacatatc ggtcgggtga agtgctgctt cgtagccaca aaaacaaacg 300
gcaggtgtac tttgggcaaa atgcagtctg caaggaatct ctgtcagcaa atgtggaaaag 360
aaggatcggc aaggtggggg atccagttta tgtgacacag tcgttcctt catctggtga 420
aagtccattc tgagtgaccg aa 442

<210> 28080

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-D11

<400> 28080

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acagttgcct cgggcatca acatttgaca ttcgagttga aagagttcgt caaggaacat 120
ttgattgata tccaaggac tcaggctgcc ccacctatgg caatgggtcca gccacagttg 180
cttactgcag cacctgccac atacaatgac cctggtgcca tgcttgctgg attgctatga 240
gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaacatc 300
tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggtt ggcggagtag 360
tcttcagctg gattctaaac cgagaaaaag ctagattctt ttgggcgggt ttgaggcctn 420

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447

<210> 28081

<211> 360

<212> DNA

<213> Zea mays

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<400> 28081

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acgacctgag cagcctgccg tacctaaagg cgtccatgaa ggaggcgctg cggctgcacc 120
caccggggcc cctgctgctg cgcactact ccaccgtcga ctgccagatc gacgggtacc 180
acatccccgc caacacgcgc gtctctgtga acggctgggc catcggcaga gacccggcgg 240
tctgggagaa gcccgaggag ttcattgccg agaggttcat gcgcgacggc tgggacaagt 300
ccaacagcta cagcggccag gacttcaggt acctgccgtt cgggtctggg cgccggatct 360

<210> 28082

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D4

<400> 28082

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gaggg 65

<210> 28083

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-B9

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gagcgaactg cgagctgctg ccacccctgc tgccgcggtc gaccgccggc cccggaccga 120
gatggacgct cgggtgggcg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180

ctgcgcgcgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcggt 240
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 caccaacggc cgggggccct tcatctggga ttcattcgcg cacgtnccaa gaaatattgc 360
 aaggaatcaa aatggagacg ttgcaatgga tcaatcccat cgcttcaagg aaaacgtcca 420
 tctcatgaaa agtttgaact ttgatgccta 450

<210> 28084

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A10

<400> 28084

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 aaaaaaaaaa aaaaaaaatt aactattccc ttttttaata accaaaatta tttcaccatt 180
 aaattacatt taatatatta tttttttata tctattttta caaattttatt taccattttt 240
 taaaaactat ttaactaata aaacctttat aatccaaaca tttatttttt taaaaaaaaa 300
 tctaattt 308

<210> 28085

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A11

<400> 28085

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 acttaaattt catactttca ttttgtcagg aaacatgctt caccatataa ctaaccatat 180
 cctttattag tgtactttgc catttgccct atatggcctt ttctatcaag ctcaacaatg 240
 ctaattt 247

<210> 28086
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-A12

 <400> 28086

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 taggaaaaac ctgcttttgt gttcgggttc acgtcgtgtc ctacgtggcg cggcggggccc 120
 cgcctagtaa aggagcgtag gagcatcggt ttgtgtttgt gtcgaataaa taatgtgtct 180
 gtgtgccgat cccgtgtcgg gttagtgggc ccactgtcgg tgctgatgtg gcctgccttt 240
 acagcacatc ggtggggctg ggccgtagag ctctgtgtc gtttaaatat atgtgtactc 300
 tgtactgtac caact 315

<210> 28087
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-A2

 <400> 28087

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 cagaattgat ggtgctctca aggttgga gaaacgtgga agattggttg cagatctaga 120
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 gctaatacaa catatagaaa agggcaacga tgatgggctt tacattagca gcgtgacttt 300
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<210> 28088
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-A3

 <400> 28088

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agggacgagt accgtgaccg tatgacgctg gcattctcag tcatcccctc accggacgca 180
tctgataccg tggttgagcc atacaatgcc actctttctg tccaccagtt ggttgagaat 240
gcagatgagt gcatggttct cgataacgaa ctctgtatg acat 284

<210> 28089

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A4

<400> 28089

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tccaggtct caagtacggc agcagccttc ccgtcgtccg cagagcacca ggagcctcgg 180
caacgtcagc aacggcggaa ggatccggtg catgcatgtg tggccggcct actgctacaa 240
gaagttcgag acgctgtca 259

<210> 28090

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A5

<400> 28090

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accc 304

<210> 28091
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A6

<400> 28091

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ctcccaaggt ccagtaacca atgttcttat tgtaacgcca caacgagtaa atctgccacc 180
gctacaacca ttacgcaaag ttcggtctgc aaatggggag gctgaacggc aggcagtact 240
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gcgctacttg gatgagcttc agaagcatgg tggttcatcc aggttatttg attttgggcc 360
gaatgctcag aatggcactc caaaccaaca aggtacagaa tggagagata gat 413

<210> 28092
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A7

<400> 28092

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cacctacggg ctcgggatct accttctcaa ccttctcatt ggtttcctct accgcattgt 360
cgaccccgag ctcca 375

<210> 28093
<211> 92
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B1

<400> 28093

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<210> 28094

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B11

<400> 28094

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aggctgctaa gaaccccaca gaactggatg gattgaggaa ggcgcatatt cgatatgggtg 180
ccgctgttgt acagtacctt gcttggctgg ataatacagat gcacgagaac tatcgagctt 240
ctggatattt cagtgaagata aaacggtcac ataaaaatga acatttagca accaaactta 300
ctgacgcgtc tgtgagtgac aaacttgaaa gctatcgtgc aacataagag aactttaaag 360
gtttgagctt tctacaatc tcctctgtgg gaacaaatgc agcagctatt cactataaac 420
ctgaatcaag cacatgttcg gaaatgga 448

<210> 28095

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B2

<400> 28095

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ggctgctact gtggtgcggg tggctactgt ggtggtggtg gcggtactg cggtggcaac 120
cgtggcggcg gctactgcaa ctctactgg aactggagga actgagcggg ggtgcccgt 180
cggccaagtt atcctgttcg ctaccgtgat gtttacccta gtccagatgg tttatcttcg 240
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gt 302

<210> 28096
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-B3

 <400> 28096

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gccctgtcat acttatctga cggcactaat gataagatcc aggctgtgat tgaagctggg  180
gtttgcccc ggctcgtgga gctttctctc catccatcac catcgggtgct tatacctgct  240
ctacgaactg ttgggaatat tgtcactgga gatgatttgc aaactcagtg tattattgat  300
catcaagctc ttccccgcct cgtgaatctg ttgacgcaga accacatgaa aagcattaag  360
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<210> 28097
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-027-Q1-K1-B4

 <400> 28097

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ttgctgtggg catttgcttc agtcacttgg tgttcgatgg gcagggtgct gcacaatttc  180
tgaaagcggg ggggtgagatg gctagggggc tccctgagcc atcgatcaag ccaatctggg  240
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cattcaactt tg                                                         312
  
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<210> 28098
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B6

<400> 28098

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caagatcgtg gcaccgtgct gcaaccaggt gttcccctgc cgacactgcc acaacgagggc 180
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agagtactat tgtgatatat gcaaattgta tgatgatgat acagacacag ggcagtacca 360
ttgcatcgac tgtggatatg cagggttggg ggcaaggaaa a 401

<210> 28099

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A1

<400> 28099

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agctggccac caaggcggcg cgcaagtctg ccccggcgac cggcggagtg aagaagcccc 180
accgtttccg ccccggcacc gtcgcgctcc gggagatccg caagtaccag aagagcacgg 240
agctgctgat tcgcaagctg ccgttccagc gcctggtgcy tgagatcgcc caggacttca 300
agaccgacct tcgcttccag agtccgctcg tcgccgcgct gcaggaggcg tccgaggcct 360
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tcatgcc 427

<210> 28100

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G3

<400> 28100

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gagttgatct acaagagggg ctatggaaag ctgaacaagc agaggatccc tctgtccaac 120
aaccaagtca tcgaggaggg cttgggcaag cacaacatca tctgcattga ggatcttggt 180
cacgagatca tgactgttgg cccacacttc aaggaggcga acaacttcct gtggccattc 240
aagttgaagg cgccgctggg aggcctaaag aagaagagga accactatgt tgagggcggt 300
gatgctggta accgtgagaa ctacatcaat gagctcatca aaaggatgaa ttaggttcac 360
gatcgagctc attgataccc tgtgctctaa gtgactngtg ctantcctat tttatattag 420
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<210> 28101

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G4

<400> 28101

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cttctttatc accctgcccc agtggcgccg ctgaactcat caccgacca caaccacagg 180
agtaaccata gcacagattg ccaactcctt tatgcaacta ataatggatt ttgttttgct 240
tctgaggttt atgaataagt ggtagaaaaa tggagcattt agttaagggtg ccccttttgg 300
acagatgttg ctttttctct ctctctagta tctgatcggc cgataaaacg agtgcattcc 360
acccggacga taatgcgaga gtaggattca gtttaattct 400

<210> 28102

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G5

<400> 28102

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gatggccaga tcccagcgcc cctcaccttc ttcaaccgcg cgctgcctt cccggagcaa 180
cccgcgcagg cacctctggt ggatgcggtg ggcttgacgg cagctgcggg gcttgggtgg 240
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ctgcagacgg gctcggcagt gtcgacggtg ttggcgctgt ctctggagga ccggcgccac 360
ggcggcgggc gtgctgggaa ctccctctggc gattcaccgc tgctcctgct gcccatgctg 420
gacgatgaca tctnacgcga ggtcc 445

<210> 28103
<211> 459
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-G6
<400> 28103

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cgctgaagca aatatccaca gtgatccgga ggcagccgac atggttttca cttctggggc 180
ggacatctac gtcgttggcc tcaacatcac aacgcaagtc agcttcacag ataaggatct 240
cctggagcta agaaactcgc aagggaaagta cgcacagttc ctatgtgatg tatgcaagtt 300
ctacttggac tggcacaccg agtcttatgg tgctcctgct ttgccgcgct agttcgccg 360
gagctgttca cgttcaagaa gggcgtggtg aggggtggaga cgcattggcat ctgcgtcggg 420
catacttnca tggacatggt gctgaagaag tggaaactca 459

<210> 28104
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-G8
<400> 28104

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cggggggtca ggccgcgcg gtccccctcc tgctccgcaa caccgcctcc ctgcggaacct 120
 ccgtctccgt ctctgcacg ggctcccgcc ggagctgggt ggcggcggcc acggcggagg 180
 gggacgagac ccgcggcttc gacaaggtgc ccatggacac ccccggcgcg taccgcctgg 240
 tagaccggga caccggccgc agcgtcatcg tgtggggcgc caccgacgac agcgacgagg 300
 cctccatgcc gtccccggcg gtgctcttcc ggaccaccga ccgtcgtcac agccaatgtg 360
 tttggggagg tacaggtatc gggaatttct gcaggttcaa ggcacatgaa ataaaatcct 420
 tggtcacgag gtcagctcac cgc 443

<210> 28105
 <211> 115
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-G9
 <400> 28105

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 aggatgctag aaaaaactca aagatattta agttaaaat ttttaattctt ggatc 115

<210> 28106
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-H1
 <400> 28106

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 cccacaaaat cctgcttctg gacaaacggg tgatattgga caagtagaga atggacttgc 180
 tcagcctctg ctcatggatt ccgtagataa acaaaatgaa gatgaagatg aagaagttga 240
 tgaaagtga gaagctgcag atgattcacg caagcctgca acatcaattg gctcagcata 300
 cagactgctt actccatcag taaagggtcca gttgttgata tacttcatgc tgaaatacgc 360
 aatggagatt ttgctttcag agtctagtgt taccactaat cactatntca gttggaacac 420

atgcgcattg gcaatttttc tagc

444

<210> 28107

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> . Clone ID: LIB3067-026-Q1-K1-H10

<400> 28107

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gtgctgcgggt tttttctaga aatataatgc gttttaatta ctagttggag ggagacctgt 120

cttgttcaat ttgttcattg accanaagca ataatctatc tgttgtgtagc tggattgggtg 180

ttatgcgatg tcccctaccg tgtgtcccag aatctacttg gtgattttat cccagtgttg 240

ttaatcaagc ttgtgtgatt gttaagt 267

<210> 28108

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H11

<400> 28108

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cgtcgtcgaa gcccgcgaag tccggcggtg gcaagcagaa gaagaagaag tggagcatgg 120

gaaagctaaa ggagaagggtg aacaacgcgg tgctgttcga ccaggctacc tacgacaagc 180

tgctctctga ggtgccaag tacaagcaga tcacccctc catcctatcc gagcgctca 240

ggatcaatgg ctccctgggt cggagggcta tcaaggacct gatggcggt ggctcatcc 300

ggttggctc ggttcaactca agccagcaga tctacaccag ggcaacaaat acctaaggat 360

gggattccct tgtttgcct ctctgttaga gctcgtcttc tttagaacag ttgccatctc 420

tgtcaagagt ttgctaatgc tatgttagat gagtttagtt tgg 463

<210> 28109

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H12

<400> 28109

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tgaaatggta ctagcaaacc actaccaaag gtacacaaaa ggctcgtggc aacttcagct 120
tctgcttggt ccggttctgt cacgaaagat catcttcggg tcgaggggtg acagaatctg 180
gggcattgac ataccaccag attctgtcaa cccttaaatt cagagatact tg 232

<210> 28110

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H2

<400> 28110

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tatatggagg gtagggctcc atatgcctaa cgcgcttgcc actacctct tcataacata 120
ccaatatect agcacacctc acgtataact ggatccctga cacatgacat cttcgaagat 180
aactcaagt gacacaaact tcacgctctt cagacgacga gaaccgacac ttctaataaa 240
cacccttagg ctccccctgc tcataccgac tgatatacct atacaccata ctcatcatga 300
tcgcggtggaa cagcac 316

<210> 28111

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H3

<400> 28111

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agctccgacc aaatctcgca gcggtgcaa ttccgagccc gaagagcgga tcaggcgagg 120
acgacgcctt cgattctgat ctgcggtcgg ctgcacctat agagaaccgg agatgcatca 180
gggcgactgc acggaggctc aggtgacgtg ggaggaccag cagaacatca accgcttcgg 240
tcgctcaac aaccgccttc acgagctcca ggacgagatc aagctcgga aggagacgaa 300

tgagaacctt gatgatgctg ggaatgaact catcttgctg gatgaagacg ttgtacgctt 360
ccaaattggg gaagt 375

<210> 28112
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 28112

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ggcgccgcta tggtaagta ctgcaggag cgggcaacc ctaccaaata ggccaaggcc 120
atgggaaggg acctgagggt ccacttcaag aacacaaggg agacagcttt tgcgttcgc 180
aagctgcctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240
attcccttcc ggagatactg tggagggtgtt ggtcgcaccg cacaagcaaa gtctcgccac 300
tccaatgggc agggtcgctg gcctgttaag tcagccaggt tcatattgga tttgctgaag 360
aatgctgaga gtaacgctga tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac 420
atncagggtga accaagccca 440

<210> 28113
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H7

<400> 28113

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atggtctatc tgactcgtg ggaagagggg ttgcttccaa agatccccga ggaggccggt 120
ctacttcggg tcttgattcc cagaaccggt tatttggtca atccgtgaag ccctttgaag 180
tgaatccgac caaacgcgtg aatcttgccg cgtaaagagt gaatgggaca atgtgtgtat 240
gcctccgggt aagccctgtg gtaccagat tgtgtcctcg cgccagttta ccctttaagc 300
tcagattttg ggtgtgccct gtgctctggt ctgtgctcta gatattgtgt cacagcacgc 360

aatgcatgcg cg

372

<210> 28114

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H8

<400> 28114

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ggggccagcc caagccatga acgcccagc caccgccgc gcggcccccgc cgctgcccgc 120

gaccgtgcag gtgccgcgcg ggcaggtgga tctgatcgac ttcacgcact ggaccggcgt 180

cgagtgcctc aaccaggact cgtcccacag catcgtaac gcgctcaagc agagtttgag 240

agacgacgag gggctgtacc tcgccagcga ttccggacgag cagctgctga tctacatccc 300

cttcacgcag gtagtcaaac tgcattccgc gctattcaaa ggtcccgcagg aagatggccc 360

caaaacagta aactcttctt caatcaagag catatgggtt tcagcaatgt caatgac 417

<210> 28115

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H9

<400> 28115

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tggcgcgcac cgcttcgac accaactact acgccaacct ggtcgccagg cgcggcctgc 120

tcgcctccga ccaggcgtg ctgcgcgacc cggccaccgc cgcgcaggtg ctgcctaca 180

ccaacagccc cgccacctc cagaccgact tcgtcgccgc catcatcaag atgggtgcca 240

tacaggtgct cacaggcaca gccggcaccg tccggaccaa ctgcagggcg gctagctagc 300

tcacccatga ttacgtcta cctgtagact catgtgctta tataaaatca tacgacgaaa 360

ctgtacgtac ggcgtagagt ggtgtggcga ggtccaatga ttcagattgt acgtacgtgt 420

ccatcgatcc aactgtagtt gtgtacgcag tacagtacgt gctagct 467

<210> 28116

<211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-G2

 <400> 28116

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 aagggtacag agaatctaataa aaagaagata aaaatagaaa aacaaaatac aaaaagacaa 120
 aaaaaactaa aatataaaaa tatggggcgc ccattttaag ttctccatg tttacgtgct 180
 tggacttact cagtatatca tcttttatgg tgaacctaat ttttaattcta atgccctctc 240
 tttaaaaact tgatacctgg taaaccctt ggttcacccc attttttccc ctatcagtaa 300
 ataccttttt tataagctga cgttttctct aaaaggccct ctcttttggc ccttc 355

<210> 28117
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-E9

 <400> 28117

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 cacagatcgt gaacctccac acctcaacga tagatggcgg ggttcagaag ccttgcaccc 180
 aagaccagga acctggtggt ggccggggga ctgtctgect tcgtgctcgg ggtctactac 240
 tacaccatga gagcgggtggg aggcacggac gagctacagg tggcgatcga caagtttgag 300
 gagacgaaga agcaggatgc tgctagaaac tccagctcca gcgcaggagg atcataattc 360
 ataagcacgc ggacacgcnc tggatctgct gcaagctgag tggctgacat ggtacgacga 420
 cagtcacgtc gctcagtagg ccatgaccat gcgttctgct tgtactg 467

<210> 28118
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-F1

<400> 28118

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tgagaacggt gtacttgagg cctgttggtt ttatacggca atagtagatt gtttgcggca 180

agcctcggtt tttgtgcgtc taattctctg acttgcagaa ttgcggtggc aaatacccat 240

tgcctcccaa gttgtgcgtt agcgtattta tccgtagttg acagcaatga acatattact 300

actgctttct gtattttcta ttaacgcagc cacatagttt attgggtttc catattttca 360

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<210> 28119

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F10

<400> 28119

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tggttcttcg gtttgtcaag ggacagtttg ttgaattcca ggaatcaaca atcggagcag 180

ctttcttttc ccagacctta gcggtaaatg atgagactgt taagtttgaa atctgggata 240

ctgctgggca agagagggtat catagcttgg ccccatgta ttataggggt gcagccgccg 300

ccattggtgt ctatgacatc acaaatccg ccttcttcac ccgtgccaaag aaatgggttc 360

aagaacttca agctcaaggg gaatccgata caatagtggc tcttgcttgt aacaagggtg 420

atatgctaga tgcgaggcac gttgc 445

<210> 28120

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F11

<400> 28120

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gcggaatcta cggcgaggac ggtgaaggat gtcaaccgc acgagttcgt caaggcctac 120
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 ggtggacgcc tcatcaccaa ccagggaagg cgtgatctgg a 461

<210> 28121
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-F12
 <400> 28121

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 aaggagctgg acggccgcaa catcacgcgc aacgaggccc agtcccgcgg cggccgtgga 180
 agcggcagcg gcggctacgg tgggtggcgt ggaagcggcg gctactgcgg tggcgggcgc 240
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 ggtggtggtg gtggcggcta cggcgggtggc aaccgtggcg gcggctacgg caacttcgac 360
 gggaactgga ggaactgagc ggt 383

<210> 28122
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-F2
 <400> 28122

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 gcgccacacc ttttggacgg gacggggctt gcttgtgtgt ttaattttgt acctaggctg 120
 ggaacatgtg tttggaggga tgggtgctgct tataaacatt ctttatacct tgtattgtac 180

acgtacatct acaagatgcg agtcaacccg ttgggttgaa gaactctccg agtggtttct 240
 tacattgtgt aagttttttt tttttctttc agtttctgca aaaagttctg agctctgtac 300
 atacattttg gctaagaagt caacctagtt atggggatat tgtgagcaat tataagtcgg 360
 ttcatcgaga aaa 373

<210> 28123
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-F3
 <400> 28123

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 gaccgtcgac cttttctcta agaaggattg gtatgacatc aaggcaccgt cgggtgttcag 180
 tgtgcgcaac atcggaaga ctctcgtatc caggacacag ggtaccagga ttgcttctga 240
 ggggtctgaag cacagagtct ttgaagtttg cctagctgat cttcagggcg acgaggatca 300
 agcttacagg aaaatcaggc tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa 360
 cttttggggg atgaatttta ccaactgataa aatgaggtcc ctagtgaaga aatggcagac 420
 attaatcgaa gcccatgttg atgtcaagac aaccgacaac 460

<210> 28124
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-F5
 <400> 28124

tcgggaaacc ctagtccgtc atatctcacg atccactcta gcaccaatcc tagggaaggt 60
 gaggagcgat ggctctcggc gtggtgtcgg cgaagggcgg ctcggtcggc ggcattgaaga 120
 aggggtcggg ttctttaagg atggtcttct tatagccagt taaggacttg ttcacggaag 180
 tcgtctcttt ttgtacgttt aagtatgtga ctttcagaat tgccgcgtca aatacccatt 240
 gccctgcaag ttgtgcatta tcgtatttat gcgtgattga ctgcaatgaa catattacta 300

ctgctttatg tatttgctat tgacgcatgc gcatagttaa ttgggtttcc atattttc 358

<210> 28125
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F6

<400> 28125

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gctatcagcg gactaggtga ctacagcttc gagaagaacc ttgccagtt ctttcctctt 120
ctcgtctggc tcataagctg cgagcatggt tctagtgaag tacaggtggc cctgagtgat 180
atgttcagca cttgggttgg cccactcggt ctccagtcct gctgatgctg aacatcatgt 240
tatacatagt agtatacatc ccattgtgtt cctcctttcc tccattatgt tatgctaate 300
ttttagtcgc tgggagttca tattgttgtg ctgaactgat catgcagatc aaattttcgt 360
tgacgttatt ttcttgttcg tatcgggagg agtgtatgtc actatagaga actgaattat 420
gtacggtagt ttagctaaaa ttgtgcccac tctgt 455

<210> 28126
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F7

<400> 28126

tcttccttcc actcttctct cccactcttc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaagaaaa aataaaaaaa aaaaaaaaaa aaaaataaaa aaaaaataaa aaaaactaaa 120
aaaaacacta atatctcaaa a 141

<210> 28127
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F8

<400> 28127

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 aaggggactg gagagagcat caatgagaag gaccgctgcc cagggtgcaa gggtgagaag 120
 gtcgttcaag agaagaaggt tcttgagggt catgttgaga aggggatgca acacaaccag 180
 aagatcacct tccttgggtga agctgatgaa ggcctgata ctgtcactgg agacattgta 240
 ttcgtccttc agcagaagga tcaactccaaa ttcaaaagaa agggatgaaga tctcttctat 300
 gagcacacct tgtctctgac cgaagcacta tgtgggttcc aatttgttct tacacatctg 360
 gacaacaggc agcttctcat caaatcagac cctgggtg 397

<210> 28128

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F9

<400> 28128

aaaaaaaaaa aaaaataaaa aaaaaaaaaag aattaactaa aaaaaaaaaa aaaataaaaa 60
 aagagtagac atac 74

<210> 28129

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G1

<400> 28129

acgcgggagt ccttgtctat cttgagcatc gaatccttgc tgtagtggtt atcagtctgc 60
 gactcagcat ggcgtgctgt tgatatctga caatagcaat gtgtggatgt gttgtgttgt 120
 gttgtgagac tcagatgtaa gctttgtgga gttcatttcc acgtgtgtgg gaaaagtgtt 180
 tggtttgaat cgaacaataa tagtgcatat aataatataa cttgcagaat atgaaaaggg 240
 aaatacccat tgacctccaa gatgagcgtt agcgtcttta ttcgtatgtg acagcaatga 300
 acatatttgt act 313

<210> 28130

<211> 434

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-G11

<400> 28130

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 atgcgcacca ttggattcaa tgttgaaact gttgagtaca agaacattag cttcaccggt 120
 tgggatgttg gtggccagga caagatcagg cccctgtgga ggcactactt tcagaacacg 180
 cagggactta tttttgttgt agacagcaat gataggggaa gtgttgttga ggctagagat 240
 gagctccaca ggatgctgaa tgaggatgag ctgcgtgatg ccgtgctgct tgtatttgca 300
 aacaaacaag atcttcccaa tgctatgaat gctgctgaaa ttactgacaa gcttggtctg 360
 cattctcttc gccagcggca ctggtacatn cagagcactt gtgctacatc tggtgaaagg 420
 ttgtatgaag ggct 434

<210> 28131
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-G12

<400> 28131

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 ccggggctac cagatcctaa tggggcttct cctgttcacg cccattgctt tccttgccctg 120
 gttcccgttc gtgtccgagt tccaaaccag gatgctgttc aaccaggcct tcagcagaag 180
 tctgcagatc ttccgtatcc tgggaggaca caagaaagac cgaaggacgc ggatcaagga 240
 gtagtagggc tgctgattga aggtccgtct atcgggagtt atgtcgtcct ggagcgggtct 300
 atcaggttca gagaatatta nggtccgtat gtatgtatgt gtgtgtcgca cctagcacca 360
 gtagtatgta t 371

<210> 28132
 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D11

<400> 28132

aattgttaac aatctaataa aagctccaga attggctacc aagatgccag aatttaacca 60
aggaatgacc caaggaagtg ttaatggaaa aattgtgaac caaggcagtg aatcaacttt 120
ggaactctta gggacatgga ggaggaaatc gaagaggagg ttgacaaggt tcttgcttca 180
gtagcagggg agactgcctt ccagctacca gatgctgcca gaacacagaa gatacatgag 240
gcttcaacaa gcagggttcc agaagagcga caagctgttg cagaggggtgc tgatgacgac 300
gaggaagacc tagaagagat cagggcacgg cttgctaaag tgaggctgta aatcatatac 360
atatctgagc tttctaacct ggtgagccca tggctcaaca aatatgggtgc caaaacccgt 420
gtattgtgaa ctgagtcgat gacaatgcan natttttta 459

<210> 28133
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D2

<400> 28133

agatatcttc tgcaaaaaga gggcacttga agttcgccat tcaatctcaa gagttcttta 60
ggactctgca acggtactac agtaatgcct atatggatgc ttacaaacaa gcagcgataa 120
acttatttct aggatacttc caaccgcagg tgggaaaacc tgcactttgg gagccagaat 180
ctggtgacga gcatgtactt gatgacgaga caaggtaagc tagcaatata tacctatgct 240
tgaacttaca ggggttaagta tgctcctaataaaaagaacaa tatacgcttt ttaatcgaca 300
acatttgaat aatatgt 317

<210> 28134
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D3

<400> 28134

cccacgcgta cgccggacgcg tgggcccgcg cgtgggctag aaggccagcg agtgagtgcc 60
 gtgcgcacgc agctgcggcg gccagtcccc agtggatcgg cgtgcgcgcg tggcggggta 120
 gtcgctcgcg cgcgtacatg gcagtatgac acgggatttt gctgttcagt acactacggc 180
 tactggcgtc tctctctgtg tgtgtgtgtc gtacgtagcc cgggtacgtat ctagcagtga 240
 ctgtcgcgcg gacttgtacg gtgcgggtctg cgagtgcgtt gggctaaata aagtgtgcgt 300
 cgggtggtaa tgggtggggg gcccggtgtc agtggcgcag tgcccatgc ctgccgcgga 360
 tgcagcttgt tgtgtcttgt gt 382

<210> 28135
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-D4
 <400> 28135

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 ggcaattgag aaggattgca tgagccatcc ctataattat gtcattcatg ctgtgatcgt 120
 attagatgat gaaacaaaat tcgaaccttc cgctgggtctg ttgttgcaac agttcatatg 180
 caatagggtt ttaatgggt 199

<210> 28136
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-D6
 <400> 28136

agcaaccgca gccgcgaggg ccaagcaggg gggacaagga aaagggccga cgaagaggaa 60
 aaaggaagaa cgcgtcgcg agccatgggg cttggccttg gcgtgcgggc ggccgcccttc 120
 acgtacgcgg cgcacgcact ggccgtcgcg gcggcggcca tggttctcgt ctgggtccatc 180
 cagttccgcg gcgggctcgc catcgagtc accaacaaga acctcatctt caacgttcac 240
 cctgttctta tgcttatcgg ttatgttatt atcggcgggtg aagctataat ggtgtacagg 300
 gtacttccaa catcgaatca tgacacaact aagctgatcc atctaattct ccacgggatt 360

gcactngtcc ttggtgcggt tggaatatac tttgctttca aaaatcacia tgagagtggg 420
attgccaatc tttacagcct gcactcttgg a 451

<210> 28137
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D7

<400> 28137

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gggaggctct tcaagcttat gttctataac atggaggaat ccagtttcag caaaccaact 120
gtcaaaagac ttttggagga cgagctacga aagctaaaac agctgaagct tccaaatgat 180
gaggttgaga gaatattagc tgacctggga catgggtgcct gcctggacaa aagttcaacc 240
cataacagca aagcgaagaa gggagaccaa aatcacatca gaggtatcac caccacggct 300
gtcccatctg gatcttttga tccactgct tccaactgca tgaaagaagc agaagacaat 360
gagcttgaat ttgccttggc agtattctta ggacggattc atagaaattg caccaataat 420
ggggagttat gtacggagat gaaagcccta at 452

<210> 28138
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D9

<400> 28138

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ctggtggaga accaaaaaaa acttaataac taaaaccctc ttaaaataaa aatccaacct 120
ttcaaaagcc aataatcggg attatcattc acacattcaa attcctaaat tacctaactt 180
atccgaccat gtcaccttc ttctaccaca aatcaatgat ccttcccaa ttttataaat 240
ttactgacat gctaatttc acactttccc aaatta 276

<210> 28139
<211> 442

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-E1

 <400> 28139

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 aagtcgcaat gcggcttggtg agacctggga agaaaaataa ggatgttact gaagcaattc 120
 agaaagttgc tgctgcttat gattgcaaaa ttgtggaagg tgttcttagc catcaactga 180
 aacaatttgt gattgatggt aacaaagttg tgctcagtgt ctccaatgct gatacaaagg 240
 ttgatgatgc tgaatttgaa gaaaatgaag tatatgcaat cgatattgtc accagcactg 300
 gggaggggaa gcccaagtta ttggatgaga aacagaccac catctacaaa aagggccgta 360
 gacaagaaat atcacttgaa gatgaaagcg tcaaggttta ttttcagtga gatcagccag 420
 aagttcccat catgccttta ct 442

<210> 28140
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-E10

 <400> 28140

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 tgaggagcat gctgagaagg caaagacctt gcctgagaac acgagcaatg agaacaagct 120
 gatcctatac gggctctaca agcaagccac ggttgagat gtgaataccg atcgctccggg 180
 catattctac caaaaggaca gggccaagtg ggatgcctgg aaggctgttg aaggcaaadc 240
 gaaggatgag gcgatgaatg actacatcac caaggtgaag cagctccagg aggaggctgc 300
 cgctcttaa aagtctctta atagtgttg caaacagcta tttgtcagat gagctttgtg 360
 ccatttcttc attagaagta tatcattcga tccattgggg atctgtgaac catgtacctg 420
 tttatgtaac tggttaccag tggtatccat ctatctatct atct 464

<210> 28141
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E11

<400> 28141

cggacgcgtg gggttcagggg aaatgagtca ccttatggag tgacgttttag ttgccttgta 60
aatgcctcaa tctgagccct tttttgggtt ttttctctg caaatgtatg tttctaaggt 120
agtgtgttgt taatgttaat gattctacac ctttctgtga cagttttgcg aataagagga 180
gcacctcatc ctt 193

<210> 28142

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E12

<400> 28142

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agtggcgtat tcacaaagga ttttgtcgta tactaacaat gcccatgcat gtttactccg 120
taagtgcatt cctaatacatg aagattatcc aggatactac gagcataaca ggattcatag 180
ggcaaaccac atgccgattc tacaacgggc ttaaaatccc cgacattatc aacgatcaac 240
ctttacccca acctgctctg a 261

<210> 28143

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E2

<400> 28143

cgacgcacat tgtatcgcc ccttttagcgc ggctgacgtg gtgattacac gcaacacata 60
cgttgctctt gacatgggcc taacacacga 90

<210> 28144

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E3

<400> 28144

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ggatctgagc agcaccaacc tagtagtgac tattttgata gtggagtaga tgaccttaaa 120
aaccacaac attacattgt gtgggatatg aatctgaata ggcacatcta tcctgagttt 180
gtagtctccg ttaaattgcc tcctaaatct gatgattact tcgtatggca agacgactgt 240
cagaattcat gtgatctgtc actggttttg atatccagtt c 281

<210> 28145

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E4

<400> 28145

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ggtttcgtgg gtgagcggat cgagatggcg gcgtcggatg ttgagtaccg ctgcttcgtc 120
ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag cacctacggc 180
gaggtcctcg agtccaagat tatcctcgat cgggagacgc agaggtcccg cggcttcggc 240
ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat gaacggcaag 300
gagctggacg gccgcaacat caccgtcaac gagggccagt cccgcggcgg ccgtggaggg 360
ggcggcggcg gctacagtgg tggccgtgga ggcggcggct acggcgggtg cgggcgccgt 420

<210> 28146

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E5

<400> 28146

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gcatctacta ctacagatcc acatgacttc tttaaaccct tcatcgtaac gagatcagat 120
atattattat atgtcaagag agccccaaaa tggttctatg tatgtctgaa atctacctac 180
ttgaactgat gaaaatatat tgtatgaata tttttgcacc atatgcttgt taaataaaga 240

ctaatatgac taaatcgatc aaaaatttat

270

<210> 28147
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D1

<400> 28147

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tgactacccg gacgccgacg caggtggcta gccacgcgca gaagtacttc atccgcctca 120
actccggcgg caaggacaag cgccgggtcca gcatccacga catcaccacc gtcaacctcc 180
ccgacgaaga ccgcggcaac gcgccaccgt ccgcgggtcac caccactacc aacctctccg 240
tcgccctccc ggacatgaag cccttcattg cgccgctcca agacgcgctc ggcgtgtcgc 300
acctctacgg caacgtgaag ctggagccta agagctcgct ggtggccggc ctgggcttca 360
acgactccgt cctnctgatg cact 384

<210> 28148
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E6

<400> 28148

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ttactttctca atcgaatatt tatgcgaggg atgtttgtca acgccttagg cttcatcttg 120

<210> 28149
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E7

<400> 28149

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gcgaagtcgt cgctcgtcctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc 120
gccgccgtgg cgggtgtccgt cctgggtggtg ggcgcggcgg cgggtgtgca catgagcaac 180
gagcagttca tgtcgtgccg gcccgcgggc gccaaagacga cggacccgcc ggccgcgccg 240
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aactcgccgt ggatgggctg ctacaacatc gaccccaagc gcgccatgga gcttccggcc 360
aagtgcggtc tcgccacgcc gtccgactgc tagcagtgtg ctagccaagc caagc 415

<210> 28150
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B5

<400> 28150

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cagtgtctctt acgatgggtg tcgttggaac ccagaagagc atttcgatga tcaacaatca 120
cgaatatatg gggttcctca acttctgcga gtaactcaaa caccatcaga ctgtcgatcc 180
atccgggaga atccaggcca atgcctaatt gacctcatct cctcaaaaat ctagaagaat 240
aaagtcgccg agtatgtgca caagttagct cctcgccaac atgtgcgcat ttagaccgac 300
agagtcgctg tagtgaattc agctcgtgtt agctcctggc taacgagctg accatacggc 360
tttagttttg tgaagtgggc gcgatttctg catgtcatgc atgtgttagc tcctggc 417

<210> 28151
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B6

<400> 28151

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agaacgggta ccaccaccgc accgagatga acaagaaagt ttacaagatc ggcaaggctg 120
gacaagagac ccacgatgcc tccacagagt ttgacaggac cgagaaggac atcactccca 180
tggttggttt cccccactat ggtatcgtga agggtgacta cctgatgatc aagggatgct 240

gtgtgggtcc aaagaagagg gtggtgaccc tccgccagtc cctcctgaag cagacttccc 300
ggctggcgct ggaggagatc aagctcaagt tcatcgacac atcgtcctaaa tttgggcatg 360
gtcgcttcca gactaccgat gagaagcaga ggttctttgg taagctcaag ggcgtaggtg 420
ctgcggtgca tcgacaagtc ccatttgtca aaat 454

<210> 28152

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B7

<400> 28152

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caggccagag aaaaaagcat cgaatttccc cccccgttaa ttggcctgag ccctcagccg 120
tctaccagca gcagctagag gcagacaagc taggttttac tgcttcattg agcacaaaga 180
tccgctgacc tcttggtaaa aatccaacct tttttgtatt gttttcttct gggaaaacct 240
ccttggtgtg cataaactgc gtagtacact ctacaatttc tggagaggaa gctgagaact 300
actatccata tctggcacga cccttgtaaa gaaccatggc tggttcactg ccatgaagct 360
gcttgaactg gaggcaccta aatgctgtgg attgttccta tgcagatgat cggatcagtg 420
gtttcaggct ccgggggggt cgatcagatg 450

<210> 28153

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B8

<400> 28153

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ctgcggcatg agcggttttt accctggctg cgataaccac ttctgttcat gtcaagccga 120
aaggcgtctt ccccatctgc tccagtctct gccgtcctat gatgggctgc tcgccgtcat 180
ctcatgcttt catgatgatg atgcctccga acatgatggg cgtctctatc tgtttacca 240
gcatgggcca gatggtccgt cccccccaca tgggtggctg ctgcattcc 289

<210> 28154
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-B9

 <400> 28154

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 gtcgccatgt ctggcatcat ccacaagatc gaggagaagc tccacatggg gggcgaccac 120
 aagaaggagg atgagcacca caagaaggcc gaggagcacc acaagaagga ggaggggggag 180
 caccacaaga aggacggcgg ggagcataag gaaggcatcg tggagaagat caaggacaag 240
 atcaccggcg agcacggcga caagtccggc gaccacaagg aaaagaagga caagaaaaag 300
 aagaaggaga agaagaagca cggcgagggc caccgaccag acggcggcca cagtagcagc 360
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 caggtgcaac acangtatgc tngctggatg gaggattcat a 461

<210> 28155
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C1

 <400> 28155

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 tgattgacaa agcaccaccac atggtctgta tcatcaggaa acatatacat cgtataaaaa 120
 acatcagaaa aaggaaagat ttgcagttca aaaaaaaaaa cattaataaaa aaaagaataa 180
 ccaaaaagaa aacaaaaaaaa aaagcctagc catcaagaca taaaaaata acaaacccta 240
 tgtctaaaat tccagacatg taatcgctta ttgcacgcca tacaagacac g 291

<210> 28156
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C10

<400> 28156

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cctcccaaga gcccacgcc acagaggagc cccactcctg aaaagcatgc caatggaaaa 180
gattcacctc tgtcacgcag tgtatctcca tcaccgaagc gtgcaagctc ccgcagccca 240
ggcagcgata gcaaggaata aagcttggtg atctgggtgat gcttaaagag cagtcttccc 300
atggggattgc agaacgttga gaaggctggt tgaatatgat ggcagtacca atctgcaatc 360
aaccgctatc caaggttgct agttctttta atgacttcta gaattgtgtt ttccagttgt 420
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<210> 28157

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C11

<400> 28157

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gccgcgcctt ccgccagtc ggcacaaacg tcctcgccct cgccgccgcg ctcgagattg 120
ttgccgttgg atacgccatc atgaccacga gatcgccgga catcagctgg cagatgaggg 180
cagtcagggt gctacccatg ttcttggttc ctgctctagc tgctctcatc tactcgacca 240
ttacaaacct cacgaaaatg cttgacaaca gagaccaaca aactcttgaa aagctacgaa 300
ctgaaaggca agccaagatt gacgaattga aggagagaac aaattactac actactcagc 360
aacttatata gagatatgat cttgaccag ctgcaaaggc ggcagcggca acagttttgg 420
catcaaagtt ggggtgcggat tctggactga gagtctttt 459

<210> 28158

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C12

<400> 28158

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ttacccggaa acatgagctt agcgtggatt ttaccatttt gaggtgtag aaaagcgtgc 120
tgcctatttt agactagata tacagactaa aacatatgga gcccacatt tcgggtattg 180
tcaagtgtg cgtttcactt tcaaaatagt gtaagggcct tgtgtttttt ttcttcttct 240
gaatttggtg taaaatagtc tagcatccct tgcaaagagg gggtaatgtt gttgtcacat 300
gatggtgtgt accaaagtgt agtaaagcat cccttgcaaa gagggggtgg tagtgtcctg 360
tatgtttttt taagcaaagtg tgacaaacta tataagaaat gaatatttca tgtgagttat 420
gt 422

<210> 28159

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C2

<400> 28159

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gaatggaaaa gtatactcgg tggtagagtgg attcagagac accgtaagat cgtgcagcaa 120
aacgcttata agtacatgag ggtatcatgg gcaaagattt tccagacact ctttattcaa 180
tgtttatagt ggcattatct cttcattacc att 213

<210> 28160

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C3

<400> 28160

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tgttcgcggc agccactctt ggggttcaac tttggccttg tgtatttatg ggatggattt 180
cagatggtag agacgtatgc ttgtgctgtt cacaaaacca gtgtacaatg tgatactagg 240

tgctacgtgc ctttcttttt ttaatctgtg ctgcactctt gcctgtatgg gctgttttgt 300
 tgttgggttc cggtaaataa tccagaacag tggcacaaac gattagttgt tgcattgctac 360
 tgccttttct gaataaatct gtcattgtaa tcg 393

<210> 28161
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-C5
 <400> 28161

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 ttcaaagcag cagcagaaac agttcctgga tgaagccatg atcaagcagc cgacaccgga 180
 ggaggaccgt gagggcgcat ggccctcagt gctgacgac atcggttttg gattcctaac 240
 cttcaactca ttcattggctg tgtacaggtc aaatggagat gttggatcta tctcctttgt 300
 ggtcttctct tacctgggtc tcgttctgct gttctactgc ctgcgccgat tcgagacaac 360
 tccaccagag tcgcctagcc gggagcacat aataaatggc cgtgtgggta ctcaccacga 420
 tgctcactgc tgcgttctca taca 444

<210> 28162
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-C7
 <400> 28162

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 gaaggaaaac atacacacta gctgaactaa aatttcaaaa atctattaat ttcaattggt 120
 cttcctaagt tcacactatt gcccttcaac ttttcaactt gcatattact agaatccttc 180
 ccatataata cctacgtatc cttccgctgt tcaccttttc agcgtacaac gtgatactat 240
 gtgctacctt cttttctttc cttaatctgt gctgctctct tacatgcttt gactgttcta 300
 tccc 304

<210> 28163
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C8

 <400> 28163

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 aaggaaaaaa aaaaaaaaaa aaaaaaatat aaaaaaaaaa aaataaaaaa aaataaaata 120
 atatatagag actccttaat tcatccaaat ttccatacct tttacatcgt aagccactgg 180
 tataacactg gggttcccaa ttttaatcag tctggccgca tattcaaaat tataccatct 240
 ggtataactc tcaaagtttc ccaattcata tcgcttt 277

<210> 28164
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C9

 <400> 28164

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 aagaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaagg gcgccccttt taaaaaatca 180
 aatttttctt accgttactt taaattttaa aattttttta aaggggcccc aaaattaaat 240
 ttattgcccc ttttttaaaa acttttaatt tggaaaaacc ttggttttcc caaattaaat 300
 ccctttaaaa aaaaaccctt ttttccaaat tggtttatta cc 342

<210> 28165
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-B4

 <400> 28165

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gcggcgggcgg cgctcgttgcc ccggggcggcg ggaaccaggc tgggcagggc aagccgaaag 120
gcggccttccc cggcgggcgcc ggtctcggcg ggccgatgat gggcgggcgcg ccgcccgcgc 180
atgcggggcat gatgatgagg ccgccgaaca tgatggggcg cgcgggcggt tccccggca 240
tggggccagat gggcgggcac ccccatatgg gtggcgggcg catgccgcac gcaggcgggg 300
gcgccgcgca cggcatgccg gctggtggca gcatcagcat ggccgctggc ggaatgcctg 360
gggcccgggtt ctttcgcgcg ggcgttggcg gcggcatgcc ggccggcgcg gagatgctgg 420
gcatgtcgca gctgcctccg cagcaacagc agcaca 456

<210> 28166
<211> 336
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-A11
<400> 28166

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ggtacgccat catgcatctg gtcacgttgc gaccatggag ctcaacaccg accaaatcta 120
ccgagactac atgctcgatt ccgaagataa ctggaattgc cagctcgaaa acattacctt 180
caccgcaaaa tatggaaacg ttccacagat ccatgcacgt cttcatcaaa ctatgcctag 240
tcatatztat gattatacct gatatgctca agaacgctac catgttcaag ctcttggaag 300
ctacaattaa tcgcaaatga tcacctatta caattt 336

<210> 28167
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-A12
<400> 28167

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tgggcctaag ccgttgctaa ttgtcaacat tgggggcccc accaggaatt gtaaatatgg 120
tgtagatctt gccaggcagc tcataacttc tctgtataat gtgctagata gctgtgggag 180
tgtcagaatc tcattctctc cgagaacacc atggaaggtt gctgatacta tatttaaaga 240

atttgctgga catcccaagg tctatatttg gaatggtgaa gaacctaacc ctcacatggg 300
 acatcttgca tgggctgatg cttttgtcat aacagcagac tcgataagta tgttaagtga 360
 ggcaggtagc acagggaaac ctggttatgt tattgggacc gaacacttgt aatggaagtt 420
 ttcggctttt cacaag 436

<210> 28168
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-A2
 <400> 28168

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 aaagaaaatg agaaaataaa aaaaaaaaaa aaaaaaata aataaaaaaa aaaacaataa 120
 aaaaaaaaaa aaaaaaaaaa tataataaaa aaaaataaaa aaccaaaaaa aaaaaaaaaa 180
 aggaccccct ttttaaaaaa acaaattttt attacccttg aatccaattt taaaattttt 240
 tttttgggaa ccaaaattta aattaatttg cccgtttttt aaaaaatcca actttaaaaa 300
 acctttat 308

<210> 28169
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-026-Q1-K1-A3
 <400> 28169

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 cggccgagaa aacaaaacaa accgaaagaa gaaaggcgac gaggaagaga aggctctccg 120
 cgagatctgg gggagctccc attctcaaga tgcacgactt ctgcttcacc atcccctacg 180
 ggttcgcogt gctggccggc ggcgtgctgg gctacctccg ccgcggcagc accgtctccc 240
 tggcgggtggg cgccggcgcc ggcgcgctgc tctcctcgcg gggcttcgtc agcctgaagg 300
 ccttcgagaa gagacgcaac tctacgtcg cctcgcgct cgagacgctt tgtgcattag 360
 ccttaacttt cgttatgggg caaagattcc tcgagacttc gaagattatg ccaactggtg 420

tcgttgc

427

<210> 28170
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A4

<400> 28170

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ggggtgagcg gatcgagatg gcggcgtcgg atgttgagta ccgtgttcgt cggcggcctc 120
gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg cgaggtcctc 180
gagtccaaga ttatcctcga tcgggagacg cagaggtccc gcggcttcgg cttcgtcacc 240
ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa ggagctggac 300
ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg cggcggcggc 360
ggctacggtg gtggccgtgg aagcggcggc tacggcgggtg gcgggcgccg tgat 414

<210> 28171
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A5

<400> 28171

ggcttgtgtt actgccgcca ctgttgtgac cggcgctgtt actagtgcac tgcagagatg 60
cgagtttctt gcgaacatgg ctttataggt ctagcttcat gc 102

<210> 28172
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A6

<400> 28172

gcgatccac tcccgatcag cagctgatcg ctactcttg cagcgcggtg attctttagc 60
tgctctagct ctagccctag ctagtagcta gccactcggc cgtgtagtca tcagccttct 120

gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg accgaggaag 180
cgccggtggt ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct gccccggccg 240
ccaaggccaa ggggaccaac ccagttgcc 269

<210> 28173
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A7

<400> 28173

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cgcttcctct acatcaccat cctcaccgtc atggggtctt ccaagtccac ctccaagtgc 120
gccaccgtcg gtatccaggg catcgcttgg tccttcggag gaatgatctt cgcgctcgtc 180
tactgcaccg acggcatctc cggaggacac atcaaccag ctgtgacttt cgggctgttc 240
ttagccagga agctgtccct gactagggcc ctctttctaca ttatcatgca atgcctgggt 300
gccatctgtg gagctggagt ggtgaacggc ttccagcagg gactttacat gggcaacggt 360
ggtggcgcca atgttgctgc acctggctac accaaggggtg atggccttgg cgctgagatt 420
gttggcacct tcatactagt ctacaccgtc t 451

<210> 28174
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A8

<400> 28174

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gcgcatcgag agaggacagg gtttgatggc ccatggacta gggatcctct gaaatttgac 120
aactcttatt tccttgagct tctgaaaggc gactctgaag ggctcttgaa actccctact 180
gacaagggtc ttgtggaaga tcctgaattc cgtcagcatg tccaactata tgccaaggat 240
gaagatgcat ttttcagga ctacgcggag tcacacaaga agctgtcaaa gctaggcttt 300
acccccctc gctcttgtct ctcatccaga tctgcgaata aacacaagtc gttgctggtg 360

caagctgc

368

<210> 28175
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-A9

<400> 28175

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ggtgctccat gaggcagcgg gtcacgtggt gacggtggag ctcaagaccg gcgaagtgta 120
ccgggggtcc atggctgagt gcgaggataa ctggaattgc cagctcgaga acattacctt 180
caccgccaag gatgggaagg tttcgcagct ggagcacgtc ttcacagag gaagcagagt 240
gagatttatg attatacctg atatgctcaa gaacgctccc atgttcaagc gcttgaagc 300
gagaattagg ggcaaaggat cagctattgg agttgggctg ggacgtgcag ttgcaatgcg 360
ttgctcggct gcttctggct gtggtggtgg tcctgttggg cgaggcagcg cgccttctgt 420
gaggaggtag attttatggt gtcattgngc ttttcttggc tggctg 466

<210> 28176
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B1

<400> 28176

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gaaactagtc atagttattc cagtaataat tctcaaagca agggaagaaa ataacagaaa 120
gggcgcatta agttgaccag tactagggtt tccatctgca gatcgaaagt taggaccaac 180
caaaagctag gaaacacatc aagctgcgcg tctcgccata cacaaattca tcacccaaaa 240
acaaaaacct tcaccgtctg atctggctgt ctgatccgat gtgtgggagc aagatcggtc 300
ggatcggatc ggatcacgcg gaagccgctg ccgttcggta gcggttgagc ttgccgaaga 360
tgtggaggtc ggtgacgaag ccgatgaagc ataggacat gacgagcacc a 411

<210> 28177
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-026-Q1-K1-B10

 <400> 28177

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ccatggtttt gatgagagga aaatagaaac tcatgttgag tactgtaaac atttacttga  180
tgctgctaaa gttcatcgtg atgcaactga gcaagctgaa cagcagaata agcaaaaaat  240
ggaagttgct cgtcagattg ctttggcaga agaagctcgc cgaagggcag aagagcagag  300
aaaatttcag ttagaaagga ggaaggaaga ggatgaactc aagcaagtaa aacaacagga  360
ggaacacttc cagcgtgtga aggaacaatg gaaaacattc agcaacaccc ctggcaagag  420
aaaagatcga tctaagactg angatgaaga ggtgggaaat aaaaag                    466
  
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<210> 28178
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-B11

 <400> 28178

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cttctttttt cttgttagta ggctggtagt ggtcgaatta atttgctttg tgttgccgct  180
agtccatgtg gactgggtatt gttcccttgg atttatttgg caagcgtgtc cgtgctcgtc  240
ctagcgtttt attgagcttt taaagtcatc gcattcaaaa aaaaagacaa gaaacaaaaa  300
aaataaaaaa taaaacaca                                     319
  
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<210> 28179
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-B12

<400> 28179

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cggcgtataa taagcttccc ctttctgcaa ctgattctgat ccgggctgcc gtgagctctg 120
ctcgtctctga tggagttcaa gagggatgta tggagcctgc tctctgtgct gctcctcggg 180
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gtaccaatcg tctgctgctg acggcagaag ctgcaaatag cttggtactg gtacctagct 360
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attaccagtg t 431

<210> 28180
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B2

<400> 28180

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aaattgctgc tcagatctgt cgtcaggctg gccttgtgaa gacattggag aaaggaaagc 180
atgcagaggg tggatgaagat gacaactttg ctattgtgtt tgctgctatg ggagtgaaca 240
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ccctttttct gaatctggct aatgatccca ccattgaacg tattatcacc cctcggattg 360
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cagata 426

<210> 28181
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B3

<400> 28181

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gtgaggactt gttggaggag gacggagcgc gggccgcgga gggcatggc atggtgatgg 180
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aggagcctgc ttgggctgcc tgtgagtcca agctcgacag gaccactgcc actgtgaagc 360
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aatg 424

<210> 28182

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-A10

<400> 28182

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ccaagacgac tgcaccggcg cacgagcagc aggccaacgg caacggcaac ggcgagcaga 180
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acatgctcat caagctcatc ggcgccaaga agaccatgga gatcggcgtc tacaccggct 420
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<210> 28183

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G6

<400> 28183

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gcagaacgaa cgtaacatt gcgagtactg tgacgccgtg catcgaaagg gtgaggatca 180
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tggcttacta gcactgatca tagaggctcc acttagattt ctgggttatt gctaatacct 300
ttatgtaacc ttgttctttg gaattagtcg attaataatt ggcacttttg tatgtttatt 360
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<210> 28184

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 28184

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tgccgtcttc ggcgctccat ggtacttcat gacgcgaggg gcaaagcatc aatctcacca 180
agattacatg gaaaaggcta acaaggcgag atcagagagg ctttcttctg gacagtcac 240
tgactaaaaa gaatgaatgt tgtattgcct attctgggtc ctgaccttca gagctgggtca 300
tagatcatac actgtattng attgcactca acggatttga tctgntgnta aataagcagg 360
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<210> 28185

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G8

<400> 28185

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tgtttcccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180
atgagcgact acaaggtgga gatggtgaac gatgggatgc aggagttctt tgttgaattt 240
cgtgggccta acgaaagcat ttatcaagga ggtgtatgga aggttagagt agaattgcc 300
gacgcatatc cttacaaatc cccatcgatt ggtttcatca attagatata tcacccaaat 360
gtcgatgaaa tgtct 375

<210> 28186
<211> 328
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-G9
<400> 28186

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cgtcccggg gtcgtcgacc cctccacgc cgctgctcaa ggacgagctc gacatcgatga 180
tcccgcgat ccgcaacctc gacttcttgg agatgtggcg gcccttcttc cagccctacc 240
acctcatcat cgtgcaggac ggcgacccga ccaagaccat caaggtgccc gagggcttcg 300
actacgagct ctacaaccgc aacgacat 328

<210> 28187
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-H1
<400> 28187

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cacacgcgga tggagcacta cactttacag aggcgagaag aagcacgtcg tacgccggca 120
tcgccatctt cgctgccgtc ttcggcgctc catggtactt catgacgcga ggggcaaagc 180
atcaatctca ccaagattac atggaaaagg ctaacaaggc gagatcagag aggctttctt 240

ctggacagtc atctgcacta aaagaatgta tgtcgtattg cctattctgg tccctgacct 300
tcatagcttg tcatagatca tacactgtat tgatctgcac tcaacggatt tgatctcgtg 360
ttaaataagc cggttatctt tctttt 385

<210> 28188

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H10

<400> 28188

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aaagaagtcg ctagcagaaa ataatagcct tcttcgtcag atactaagca ccaatcgagg 120
catgtctcct ccttaagatt gttgctatag tcgaccatgc caatgttaca tccaacaaca 180
ctggactact tttttattag ttgtctattt agtctgatca tattgatact atagtagctg 240
tgtgcagctt gtggcggttg aacatgtcct acttttgcac ttaagttata gaaaagttgt 300
gtgtgttcat gttgtttgat gaaattgtat gcacggtttg gattgaattc aattatatac 360
tgatttttatt aatt 374

<210> 28189

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H11

<400> 28189

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tgcatggcca acatgtccaa catgctatga accttctcaa aattcacatg atgatttgta 120
tttgcatgcc atctgtctta ctgagggtta ttaccggttg tggttcagaa ggtacaggga 180
agggaaaaat aaagcgctcg gttatagagc ttgaggagaa ggaacatatt gagtggcgcg 240
aagagaactc tggaactgta gcccttcgac ttggtgggcc aagagagtat cggttccttg 300
agcatgaaag cgattctgac ctagtgggga actttaacat agattaactt ctgatctaata 360
ctatgtattc ccgtatttat gtgttatagc tatggatgc 399

<210> 28190
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-H12

 <400> 28190

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 tgagctgagc tgagcgatgg atcgcgagct cagccccagg ggcaatgctc cagggagagg 180
 gagcggcggc gcgtcgtcat cgaagcacia gaacggcggc ggcggcaaga agccgatcaa 240
 ggtgctttac atcgccaacc ccattgcgct ccagaccagc gccgagggtt tccgcgcctt 300
 cgtgcaggag ctaccggcc aacacgccga tcccttcaag tactgccccg acgaccttga 360
 ctccggcgct gccgcacagg gtctgagcc 389

<210> 28191
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-H3

 <400> 28191

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 gtcattttca cagctagtca gagagtctat gctgagcaac ttatagataa acttgaccct 120
 gatggaaaat atatctcacg gcgtatttat cgtgaatctt gtgtattctc tgacggttgc 180
 tatacaaagg acctgacaat tctggggatc gacttggaac aagttgcaat agttgacaat 240
 actccacagg ttttccagtt gcaagtggat aacggcatac cgattaagag ctggtttgat 300
 gaccctcag atcaagaact gatcgaag 328

<210> 28192
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-H4

<400> 28192

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cagcgatggg caggtatgag ctaagccgaa tatcagccgc tgtgttcatt gcacttggtgta 120

aaggaaaagt tcagtgtcgt ggcaatgtac gaagcctcgt ctttcgtgga tggttcagca 180

cgatgttgtt ggattttggc tggcttcagc gctgccccaa aggtctagac ctaagatcac 240

tggaggagaa tctagggcga ggcattttaa ccctccctct gaggcagcag caatgtttgt 300

ttgaagaatg gttccagttc tattcgacca aagggtgctga gtgtccgaac cttattaggg 360

ctttccaggt atgggtggaga aggtctttcg ttagatcgtc ggtag 405

<210> 28193

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H5

<400> 28193

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cagtgggtggc gattaacgag tttaggaaca gcaaccctgg tatcatacgg gttattcttt 120

ttgtagcctt ttggagagtt ctatcggttt tggattcggg agtttatgaa ggcttgttga 180

tgagtttgag ctggaatagc ttttgaaaca gccggatgat gccatcttta ataaacaaaa 240

ttctgtgact gcattcacat ttctgtcagt cacctgagtg ag 282

<210> 28194

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H6

<400> 28194

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aatcctctcc ggaaccgcgt tgagcagggc acggctcgatt ggatctagat tctaggggtga 120

gggtccgtcg ccgaagaaac tcgcaggcgg tcacgaggag gcggcggggg agggcggagg 180

agatggcctc ggaggagatg acggcgacgg aggtggctgc gctgctggac ttgaagccgc 240

acccggaggg cggttctac accgagacct tccgcgacgg ctccatcacg c 291

<210> 28195

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H7

<400> 28195

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ggaaaagatc aactgcttgt tttgattaga aagttcccag aaggtcttgc tgttgtggaa 120

gtcaaggatg catattcaaa tgtattggaa gatttgcagg ctctgaaggc tgctggtgag 180

gtttggctgt tatcaaacat ggactcccag gaggacattg tatacccaaa tgatccacaa 240

gcatagatca aggttgatga tgacctgaag caacttttcc gtga 284

<210> 28196

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H8

<400> 28196

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gggttttgct caccgccctc ctctcgcct tctcctcgt cgccaccctt ttcaccgccc 120

gagttgctag agctgattcg gaggaagatg ctgctgcagc tgaggttggt gaaggggctg 180

atctaggtat tgtgggtgat gatacacagg tttccagtga tggaccttta agccctgctc 240

ctggtgtaga gacagtagtt gtattcccca aaaatgctgg caaaattgta ctagcagggtg 300

aagaaactga attactagtt ggtcttgcaa atgaggggtga atc 343

<210> 28197

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H9

<400> 28197

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gccccaaagta gtcagtcgtc atcgtctctt ccgatcgctt cgagttcatt acagttagcg 120
ccgctaattcc cctccctaatt caccatccat ccattccatcc ggtaggattc cccagccatg 180
tcggcgactg cgggtgaagtt tcccgtggag gcgcgcgcga ggacagtga ggtcaccaac 240
gtctctctta gtgcaaccgt gcaagacatt aaggagttct tttccttttc aggagatatt 300
gaacatgtgg agatgcagag tggatgatgag tgggtctcaa ttgcatatgt cactttcaaa 360
gatgcacata gcgcaaaaac tgcacttctt ctttcgggtg ccacaatagt tgatctttct 420
gtcatcattg ga 432

<210> 28198
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-026-Q1-K1-A1
<400> 28198

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ccgccatgga attcgatggc ggccaacgcc gggaataaga tccgcaacgc caagctggtt 120
cttcttgagg atgtgggccc tggcaaactc agcttggttc ttcggtttgt taaggacag 180
tttgttgaat tccaggaatc aacaattgga gcagccttct tttcccagac cttatcggtc 240
aatgatgaga ctgttaagtt cgaaatctgg gatactgccg ggcaggagag gtatcatagc 300
ttggctccca tgtactatag ggggtgcagct gctgccattg ttgtctatga catcacaat 360
ccggcctcct tcacccgtgc caagaaatgg gttcaagaac ttcaagctca aagaaatcag 420
aat 423

<210> 28199
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-G5
<400> 28199

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actgtcagaa tattatggct tgctgattac catagatata tataaatgta ctgaacatat 120
 ggattttattg aaatcagggt aatgattaat gaacatcagg atcatttaac acatgaatta 180
 gctgactaat cattagatat gtaaattgag atattatgag gaagttagta taacacatga 240
 tag 243

<210> 28200
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-F11
 <400> 28200

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 aaaccaggac agccgggtctt gtggatccag agcttgggac gcgtgtctag agacgcctat 120
 ctcttctatg gcgcatgcta gatgactacc actggctgcc gtgttccaac ttcgggtctg 180
 ggaaaacccat tttcaatgcc cagcttattg gccttgcagc tcatcccat ttcgccgagc 240
 tgggtgtaatg cccaagagtc cctgaccgtt cgtcctttcc aacagtttgc gcacctgaat 300
 ggctaattg 308

<210> 28201
 <211> 271
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-F2
 <400> 28201

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 gtgcactgca agctaagact tgaacatgaa gcactattgc atgtgtgtgt attctcattt 180
 ttttattaac catctttttg gtcgggtcta tacaagtgta tttaccccat tgcttagcag 240
 caaagcatta ccaatttggg tcaaaacaat t 271

<210> 28202
 <211> 309
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F3

<400> 28202

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ccccattgcc tatttcgggtg gatgaaaggc tagctagcta catactccct cgtgctccta 120

cggtcgaagt tcttggcagc agccatttga aagaagaacg aagagtatgg taggccactg 180

ctagacaggg aagcagctca attttcagca gcagtttgac caaaaatatc tgaagagcca 240

tgtgcttggg agtctgcatg gagaagcata ggtgaaagaa cgatctggct tttctgatgg 300

tctcaaagc 309

<210> 28203

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F5

<400> 28203

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ctcgtcctcg cctcctccct cctgactgc gccagatccg acggcaatga cgcgcagctc 180

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aacgcggcgt gcctggccga gcagctcgcg agacagttca aggggcagga gtgcaccaac 300

acgacgggcy ccaacaccgt catcggcacc gagcagcagt tcccggacta cccaggtac 360

ctggaccgct gccacctcaa cgcgtcgggtg accgaggacg gccaggtgat gccggcgtgc 420

gtgcc 425

<210> 28204

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F6

<400> 28204

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 aattatcagt gagtagtagc tagcttaagc agtgctccga tccgagatca gttcttccag 180
 cagacctgtg taaatgagag tctcgccgcc ccgccccgcc ccggtgtaac gcatcgtcatt 240
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 atgc 304

<210> 28205
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-F7

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 gatccccgac ggatcgaggg tcgcgccgcc tcatgagaaa aatcatcttt ttggctcgaa 180
 cagaaaatac ctgaagcttc aatttgacat cgtgtagcaa tgaatgcgtg caaagaatgc 240
 tcttttacat gttgagaaat gagaaaaatt agatgtcgt 279

<210> 28206
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-F8

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 ccggttccgt caatgtgttc aacaaccgtc tcagctgaga aggtcaaga gtcattggtc 180
 ctagccagca gaagaagctc agccccgtg gcctggtagc cagaagctcc tcctactctc 240
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 aaaccacagc 310

<210> 28207
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F9

<400> 28207

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 aatgggacag aggagggggg acaaaagctg gcgccaacgt actcgccaag cctccggctt 180
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 tttgctctgg tgcggcatgc ctgtgtatcc cattgagatt ctgtacaatt gcaaacagag 300
 agcggtacct ttttagttaa ttatcagaga tgactgtaga aagaaactga ttgtggtgag 360
 gttgagtgga cgaataaatg gcgagtct 388

<210> 28208
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G1

<400> 28208

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 ttttatgtct ctaggaaatc aatctatgtt ttctcaactt ctggatcatt taatacttga 180
 aatagctggc taaccatttg aaaagatata tgagatatca tgaggaagtt atcttcacac 240
 atgatagaga acagaagttt agaatttttt tttctctaaa ctcagatttg atttcacatg 300
 actatagttg ctactgcaat cttaggg 327

<210> 28209
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G10

<400> 28209

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ggggaggagg ggaagacgcc accgcctgcg gggtcgatcg gcgggtacga gtccctgcac 180

aggctcctgg aggccaacct tcccccgat ctattccagg aagcaagtcg attgctgctg 240

ggactgaatt gtgcacgacc tcttgaggct atctcactgc ctgacgccac aaccactctt 300

gcggaaacac acagttttga tttgcaggca ttccgtttta gtgcagacaa agagtttctg 360

aggcaatcaa gagctgttcg agtaggtcta attcagaact caattgctgt tcccactact 420

t 421

<210> 28210

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G12

<400> 28210

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gccgcggctg tcgggatgcc ggtcagggtg gtcgataccg ccacgccttc ctgcgagccc 120

tccccagggc aagaagcaaa tactggacac ccatctcctc ctagatgttc actcttaagt 180

gctggaagat cttttgctgg aactcagaat gtttcaagtc tgcagaagga tgaagcatgg 240

aaagtgaatg tccgcatcca tggttgcat cttgaacagg gttatctatg tggaacgatg 300

gaagcgctta atgttccatt agcagataca cctgtagtga cattctggga gggggagata 360

gtggatgcta aaaattacac ctttttctact ggcaagtggg aggcatacacc agaggatgat 420

ataagacatt ggtccaagtt cccatcatth atgcct 456

<210> 28211

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G2

<400> 28211

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 tggttcatgg cacttttcat ctgcatctcc gtgaccggca tcctggaaat gaggtggagt 180
 ggcgtggcca tcgacgactg gtggaggaac gagcagttct gggtcacgag aggcgtttcc 240
 gcgcatctct tcgcggtggt ccagggcctg ctgaaggtgt tcgccggcat cgacacgagc 300
 ttcaccgtga cgtcgaaggc cggggacgac gaggagttct cggagctgta cacgtttcag 360
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<210> 28212

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-G3

<400> 28212

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 ccaaagaggg cctaacagtt ctagaacgac agacggccac cagaaacttc tattcatcat 180
 gtttcgggat ggaacatcaa ttcagcacgc cgtcacatcg gcagctcgcc gctatctgct 240
 atcacaacct tgctcttcgg ctccccactc tgccggnctt cagcttcgac cttgtacaca 300
 acatccattc cagacaac 318

<210> 28213

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G4

<400> 28213

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 gagcagaacc aaggcgaaca tcgagaggac tgtgaggcag agcatcgaga gggtgaggat 180
 caatgcccaa tgggtcaaga acatcaaggc cgaggctgac ctgggcaatg ttctcaagaa 240

gctggcttac aagcactgat cagagacggt ccactttcat ttctgtgtta gtccatgtac 300
cgagatgtaa ctttgtttctc tggataaagt ggattaataa agggcacttt cgtttgtgtg 360
tc 362

<210> 28214
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-F10
<400> 28214

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cggcggcatc gtgcccgtca actaccaaag ggtgccgtgt gtgaagaaag gcgggggtgag 180
gttcagcatc aacgggcgcg actacttcga gctgggtgctc atctccaacg tgggcgggctg 240
cgggtccatc cagtcggcgt ccatcaagg gtcgcgcacc ggtgggatgg ccatgtcccg 300
gaactggggc gtcaactggc agtccaacgc gtacctcaat ggccagagcc tgctcgttcca 360
ggtcaccagc agcgacggcc agaccaaacc cttccccgac gtcgcgcccg ccagctggggg 420
gttcgggtcag acgtttgcga cctcgcagca gttctcttag tat 463

<210> 28215
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-D5
<400> 28215

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cgccgttttc gtccttateg atctcctcgc acctcgtggc ggcacctctc cccttcgata 120
caccaagggt ttaggatcgg cggcgatggc ggcgaggctg gcacagctgc gcgctcaggc 180
ggtgcaggcg gcggagtctg cctcgaagca cggcggctcc tactacaagg agctcatgga 240
gaagaacaag cagtacgtcg tgcagcccc caccatcgag aaatgccagg agctctccaa 300
gcagctcttc tacaccgcc tcgcaagcct accaagtcgg tatgagtcac tctggaagga 360

gcttgatggt gtcaagcagg ta

382

<210> 28216

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D6

<400> 28216

cccacgcgtc cgaccacgcg tccgcccacg ctttcgcca cgcgttcgac caatctagat 60

cggcgtcatt gtccttatag atctccttgc acctcggtgc cacacctatc cccttatatc 120

caccaagggt acatgatact tcataattgc tgcgatgctg gcacatctgc aactcatgc 180

ggttcactct gacagaattc gcctctaagc acgactacat tctactaca 229

<210> 28217

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-D7

<400> 28217

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aagccaagaa ggaaggcaac gtgcccattc agtcaggatg tgcaactcca acgtcaagtc 120

cgcgggggtg gccagatcg acggccgccc ggtgctgcag ccggcgggca accgcgtggc 180

ggcgccggag ccggacgcct cccgcccgtc caagaagtcc ctacagaagt cgctctccat 240

gccggcctac tacgacagca atgccaccgc gggcgcccgt cctgcgccgg ccgagaacac 300

ccgcgcaagc gcagcggcctt cgtctccgct gcctnccgcy aaagcgacga atgcagctgg 360

cgctttaccc gcggagaaga gcggcaggcc caaggcgggc aggatgccag gcgccgttgc 420

cgccccggtg gtg 433

<210> 28218

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-025-Q1-K1-D9

<400> 28218

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accaacaac ggacatcaca cagcccatta aaaggcttac tgggtgtggt tgtgggtggc 120
tggtcttagt gcagtgcaca ggaacttcca acggagtatg tgcaagtcgt cagaagttgt 180
tcaaggcagc ttgtttgtca tcatcaccag ggatacaaga catgcttcct cagtaagggtg 240
ttatcggaat ttttcggttc ctgtaaactg atataaatcg atgggtggaac tgtactgata 300
atcttccgta tgggtgttatt ggaatttgtg tgacagttcc tgtaaaactaa tgcagagaga 360
gagatccagc ggtgctcctg cctnctaaat c 391

<210> 28219
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E1

<400> 28219

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tagaattcta tgagactctt ctaggatttg tgaacttcaa aatctatcat tcaataaatg 120
taaattatcc tcctattctg gatccacgtc tggaagcttt agctgttgag ctctatgcat 180
tgtgccgata catgtctgct ggttccagaa gaatgattgg gaattcacao actgacgaag 240
taatggaaga taaggatgag aaaagtaaag ctgaggaagt aattgaggaa gagaagggtg 300
tgaagaataa agcaagctca aaagcagatg aatctgagtt cagattagca cagcttcaac 360
atcagctccc aaccaatgaa cctggtgcac tgatgaatct tgtagaagaa tcaactgccg 420
atgatgcaga tgatgatga 439

<210> 28220
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E10

<400> 28220

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 gaaagaacaa acaggagaca gatggcggct gcagcgaagg cgtcgtggat ggtggcgatg 120
 agcgtcgggg ccgtggaggc gctcaaggac caggcggggc tctgccgctg gaactacgcg 180
 ctgcgctccg tccaccgcgc cgccaaggcc aacgctccca gcttcgcgca ggccaggaaa 240
 aagctggcgc cgcccgccgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300
 tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttcttgcaac 360
 cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac ccactgtaac 420
 ataagagttt agcaccacga tgatgatga 449

<210> 28221
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-E11
 <400> 28221

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 gcgtcaccag cgcggggtac acccacatgg cggcgcccgc gacaagcgcc accttcagcc 120
 tcagtctgcc atacctgcag aataccagc cacaccagca tcaggacggc gggatcatgg 180
 ccgggctctc taggacaggc tcccacagcc agtgctgcga ccaacgcgcg gtccagaagc 240
 ggacgcgacc gactgaccag tg 262

<210> 28222
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-E12
 <400> 28222

cgcacacgtc cgggtgcccta ccaactacgc gctgccaac gacgacggcg gctggtgcag 60
 ggcggcgagg caggacttag acatggtcga gccggcctgg ctcaagatcg agatctacca 120
 gcgctgcata atgcccgtca actaccaaag ggtgccgtct gtgaagaaag gctcactgag 180
 gttcatcata aactggcgcg actactacga gctggtgctc atatccaacg tgcacagctg 240

cggtgccatc cagtcggcgg gcatcaaggg gtcgcgcacc ggtggatgg ccatgtcccg 300
gaactggggc gttaacttgg caattcaacg cgtaccttaa tggccagagc ctgtcgttcc 360
aggtcaccat ca 372

<210> 28223
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E2

<400> 28223

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaagaataa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt 120
aaaaaaaaat aaagtgtaat attataaata acatatattt aaaattttta aaaattttgtt 180
ggctgcttcg ttgattagca tttactgcat ttggattaag aagggattag ctttgtaaaa 240
tctgtcggta aaatatttta ttggtatgtg atttttaacg ctgttaataa at 292

<210> 28224
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E3

<400> 28224

aaatttagga gtagggcatc gtacgtagtg actgttatgc tgtttttagcc ttgctgtttg 60
tcgcccctac ctatactggg aactgtaacc atgggggtgca tctgtgcatg caaacgcgac 120
aagcaaaatt cgggattatc aatcatctgt gctactcgtg ctctgttgat gatcttcttg 180
ttaaggc 187

<210> 28225
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E4

<400> 28225

cggacgcgtg ggtgctgctg ctgctgctcg tggggctgag ctgcgccaat cccaactgtg 60
 aggagcgtcc cgcgatgcgg cgggtggtgc agatcctcaa ccgagaggcg gagcctgtgc 120
 ccgtgccgcc caagaaacca ctgctggtgt tcagctccag cgcgcccgcg aagctgcagg 180
 agatcgccctt ctctgtggc gatgacgtcc gagggcgcta ctccgttgcc aagcctgcat 240
 caccaaagtc cgaggagacc gacattgaac gctgacgcga agcagtcgat accaattaca 300
 ctactacaga ttttgtggtg tgggaatata 330

<210> 28226
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-E5

 <400> 28226

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 ttggaacact cttcatcgag ctcttcttca ttctttctag tatttggtt ggaaggttct 120
 attacgtgtt tggcttctct cttgtcgtgc ttcttttgct gattgtggtg tgtgctgagg 180
 tatcagttgt tcttacctac atgcatctct gcgcggagga ctggaggtgg tggtggaag 240
 ctttctttgc ttctggaaca gtggcccttt atgtgttctt ttactctatc aactacttgg 300
 tgtttgatct cagaagcttg agtgggcccag tttctgctat tctctacatt ggatactctn 360
 tcgttgctcg ccttgccatt atgctagcga ctggtac 397

<210> 28227
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-E6

 <400> 28227

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcggtgggt tgttatgaag 60
 gtaccccatg tatcacggac tgtgttatgg ctgagcttga aaagctgggg cagaagtatc 120
 gtgtggcctt gagaattgcc aaggacccta ggttccaaag attagcatgc acacacaagg 180

gaacctatgc tgatgáctgc attgtggaga gggtcactca gcacaaatgc tacatagttg 240
ctacttgtga tagagatttg aaaaggagga taagaaaggt tcctgggtgtt ccaatcatgt 300
acatcacaag acataggtat tcgatagaac ggctccctga ggccacaatt ggtggagcac 360
caagaatctg atcgggtgcag acatgaaatg ttctgggatg taatactatg gcggtacttg 420
tccatctgac caagtcacta tttcatgttt cagtccacga caagg 465

<210> 28228
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E7

<400> 28228

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ctcgaagaaga aaaataataa tagaataata aataaaaaga aaaaaagaaa aatataaaat 120
aaaggagaac aataataaat aagagtctat aaattaatat aatatataag tatgaagaaa 180
tatgaaaagg tatataatat acgggtgttat ggaatttgta acttgatcgt gctatctttt 240
tgctgatatg tgggtgtgtgc tagaggattt cagtgtgttc ttactgtaca tgcatagtgt 300
gcgcggtgga catggagggt gtgggtggaaa gctttatttg cttctggaac ataggccttt 360
tatgtgttcc tttactctat caactacttg gtgcaagatc tgaaaagctt gaatggacca 420
ggttctggta gtctatacat t 441

<210> 28229
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E8

<400> 28229

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ccagatgttt caaatcacta taccgacata tgtacaaacg aggctgcctc tgttgacgca 120
gaatcttcag ccccatcagt tgagatagtg gcagagaaaa cagtagatga accatcggag 180
gcagaaaagag cagtggatga accggcagaa tcatcttttg acagttctgt ctctatacct 240

ttgcctgctc ctgttaatag tagtgagcct gctaactcgg aagcctcttc cgaacaagtt 300
 gcccatgaca actgatgt 318

<210> 28230
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-E9
 <400> 28230

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 gacggagacc aagggcaggc cttggttcgg cttctcggcg cttctcagga agtacccgga 120
 gcactttgtc atcaacacga ggtccaaggg caggatgacc tcggagttcg tctcgctggt 180
 ctcttgctc tcttagaggg acggagatgg cgtgttggtg ccagcccgtg tccagaaggg 240
 tcggaggtgt actggctctc gtttgcttgc cccttgctgt gtttcagcag ctgttatatg 300
 gaccaccct gttgtgctgt agtatctcgt gtggtcgacg gaggcagctg cactgggtccg 360
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 atgctagcaa ttcagcagca gctcgg 446

<210> 28231
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-D4
 <400> 28231

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 atgagtggga gccagagctg ctatgccctc caatcaagga gggggccaaa atagatgctc 120
 caacattgga aagtgccgtt ggaccacata cgattgttga ttgttgatgg taaagaagtt 180
 gtgaactttg catcaacatg aggtctggag tctagacaca gcgttgcaaa ctgaggttta 240
 atcatcttag caactacggt acgtgaccct gagcgcgtga ttgttgcgaa acaatgacca 300
 cctcgggtcta cac 313

<210> 28232

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C1

 <400> 28232

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caccattgac aacgtcaagg ccaagatcca ggacaaggag ggcattccac cggaccagca  120
gcggctgata ttgccggca agcagctgga ggatggtcgc accttggtctg actacaacat  180
ccagaaggag agcaccctcc acttggtgct ccgcctcagg ggtggcatgc agatctttgt  240
gaagacattg actggcaaga ccatcacctt ggaggtggag tcgtctgaca caatcgataa  300
tgtcaaagcc aagatccagg acaaggaagg cattccaccg gaccagcagc gcctgatctt  360
tgctggcaag cagctggaag atggccgtac cctcgccgac tacaacatcc agaaggagag  420
cacctt                                           426
  
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<210> 28233
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C10

 <400> 28233

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cgcagcctcc aaagccactc ccaaaccccc gcttccagaa ctttctcgaa gctccccgcc   60
gcctctcca ctcgcaccga tggcgaagga accaatgcgc gtgctcgtca ctggcgccgc  120
aggacaaatt ggatatgccc tggttcccat gattgctagg ggtggttatgc ttggtgcaga  180
ccagcctggt attctgcaca tgcttgacat tccgccagca gctgaagccc ttaatggtgt  240
taagatggag ttggttgatg ctgcgtttcc tcttctgaag ggagttgttg ctacaactga  300
tgttgtggaa gcctgcactg ggggtcaatgt ggccgtcatg gttggtggat tccccaggaa  360
ggagggaatg gaaaggaaag atgttatgtc gaaaaatggt tcaatctaca aatcccaagc  420
atctgcccta gaagcccatg cagctcccaa c                                           451
  
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<210> 28234
 <211> 342
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C11

<400> 28234

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acggctgacc ttccccgagtc ccgacggcct ccagctccat cttgattctt gaggcgaagc  120
cccggtgcgt aagagtctgc catggccagc gagaataagg tctttgggtt cgaggaagtc  180
gccaaagcaca acgtcaccaa ggactgctgg atcatcatcg ccggcagggt gtatgacgtc  240
actccgttta tggatgagca tcctggtgga gacgaggttt tgctagctgc aactggaaaa  300
gatgctacag ctgatttaga agatattggc cacagtgatt cc                        342

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<210> 28235

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C12

<400> 28235

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ctagcaggca tcagaactct ataggtgtga cacttgaaat tgttacagat taagacgcac  120
tgacggtacc ctgcgctcag ttgctcgata ctcgaggctt gtaggtgatt gtatccagta  180
gtttgaagaa ctggttatct aattatttat gtaccgtgga tccaccattt tggatacgtc  240
tcatcaatat aaaagagctc caattatgaa agttaggaga aaatgacgat ctctaaacta  300
ttcttgagtt gtcgtccagc tgccaagact aatggaattg cagtttaatg tctctgatat  360
attggaacgt gtcatctcgc tccaagctta tacgttggtc tgctggtacg tgccagttct  420
gtaaggagaa at                        432

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<210> 28236

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C2

<400> 28236

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gagagctgcg agccggctat ggacgagata caacgcgagg tgtactcgaa taaaggcgtg 120
atgcttcagc tgatgcggtg gacacgtccg cgatgggcca cggttg 166

<210> 28237
<211> 329
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-C4
<400> 28237

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gatcgccatg tcggactcgg aggagcacca cttcgaatcg aaggccgacg ctggggcgctc 120
caagacctac ccgcagcagg ctggcacccg ccgtaagaac ggcttcacg tcatcaagaa 180
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
atgccacttt gtcgccatag acatattcaa tgtgaaaaag cttgaagata ttgttccttc 300
atgacacaac tgtgacattt cccatgtga 329

<210> 28238
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-025-Q1-K1-C5
<400> 28238

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gaattccaca ctgcgtcatt acacacagta caaacggtcc aaattgagcg aatgtgtaaa 180
ggcattgcat cgcctttgca gcgttggttc tggtagcaac cttccagcaa tcagagaaaa 240
gtacagtcaa cataagtaca aatttgttgc aaagaagcag tgtccaccgc agatccctac 300
tgaattcttt cgggacgcga catgctagac tagaaacca aaagtgattc cagttgctta 360
ctggaatctt cttgatgtgt cttgaatgcc cagtgtagca cagcacaatt atgccagtgc 420
tgataacccc ca 432

<210> 28239
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-C6

<400> 28239

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 tccggcatgg cttccaagca gatcggagtc ttgacctgct tcattgccat caccgctctc 120
 gccttccgtc cctgcgcata cgcctgcccc atggacgggtg gctggtcgaa cggcggcgcc 180
 acctggtacg gccagccaa gggcgctgga tccgacgggtg gtgcgtgtgg gtaccagggg 240
 gccgtcgacc agcctncgtt ctcggcaatg atcacc 276

<210> 28240
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-C7

<400> 28240

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 gctctagcag aaatgctggc gatatgcttg atcgtctcac gcttacttac aacaggacac 180
 gccaaagcatt catcaccaca gagcttactg agattatatc tgggtgcatca gcccttgaag 240
 gataggtgaa gagactatgt ggacttctgc ctttttcccc atttgtgttc ctcacacatg 300
 aaagcttctt ttcttccgga agctcagttt caacccttct cgtttcactt ttgcttgata 360
 aacgtattct catgctttat tgcaataatt aagccaacga cagtgatgat gccgtgcgta 420
 tttgcatatt gcaaaaagaa tggctctacat ctat 454

<210> 28241
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-C8

<400> 28241

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cggcgatggg tttcatcatg gagttcgcag agaactgat cctccgtttg atggaggacc 180
cggacaagcg cgaccagggt cggcgggagc atgcctacaa gatgaaggag cgggtgcgagc 240
gcaccaaggc ggcgtggagc ctncctctgc gccctacag cttctggacc ttcgaccgct 300
tcaactcgca gctctcctgg gacctgcaga tcagccaggc tgccggtcgc cgggaccctt 360
acgacgacct tattaccgc actccggctc ccggc 395

<210> 28242

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C9

<400> 28242

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ctacttgaag aagggccgct acgcgcagcg tgcggcacc ggcgcccccg tctacctcgc 120
cgctgtcctc gaatacctcg ccgctgaggt tctggagctc gctggtaatg ctgccaggga 180
caacaagaag actcgcatta ttccgcgcca cgtgcttctg gcgatccgga acgacgagga 240
gcttggggaag ctgctggggc gcgtagccat cgctcacggc ggtgtgctcc ccaatatcaa 300
ccctgttctg ctgcccaaga agacggcgga gaaggcgtcc agtgtgggga gcaaggaggc 360
aaagtcgccc aaagaggcgc tcaagtcccc caagaaggca tagactgact gtctggagtg 420
atc 423

<210> 28243

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D1

<400> 28243

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gcggtgtaga atgggtgccct acagaatgca tgcactgagc ttgcagcccg tatgtctggc 120
atggacagat ctagcagaaa tgctggctat atgcttgatc gacttacgct tacttacaac 180
tggacacggc gagcatccat cactacatag cttactgaga ttatatctgg tgcacagcc 240
cttgaacgat aagtgaagag actatgtgga cttatgccta tttgcccaat tgagatcctc 300
acacatgaag gcttattttc ttccggaggc tcagtttcaa cccttatcgg ttcactgttc 360
cttgatgaac gtattctcat gctttatt 388

<210> 28244

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D10

<400> 28244

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agatcatgac tggtggccca cacttcatgg aggccaacaa cttcctgtgg ccattcaagt 120
tgaatgctcc gctgggaggc ctaacgaaga acaggaacca ctatgttgag ggcagtgatg 180
ctggtaaccg tgagaactac atctatgagc tcatccaaag gatgaattat gttcacgac 240
gagctcattg ataccctgtg ctctaagcga cttgtgctat ccttatttta tattagaaag 300
ttggatcgtg gatgaatatg catgcagggt tgatgtttcg aactagatgt gtctggaaga 360
aatctgatct tctttctgga ggttcgggat tattatttaa agcatttcgt atctaagatg 420
ttagcacc 428

<210> 28245

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D11

<400> 28245

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aggtcacaaa ctgacatcac acagtccatt gaaagggtta ctggcttagg gtcccgttaa 120

gttggctgta gtgctttgca gacgaacttc caacaggaaa tgctctggtc gtgagaaaaa 180
aacttaggga cctgggaaat c 201

<210> 28246
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D2

<400> 28246

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gtatgtgata gcagtcactt caactccaag caaggtccat aaagctgttg atgcctgcaa 120
aggtgttctg agaggattgc atagtagccg aattgtggaa agggagctcg atcgggcaaa 180
gaggacactg ttgatgaaac atgaagctga gacgaagaca aacgcctact ggcttggttt 240
gtttgcccac ctacaatctt catctgtacc aagaaaggat gtatcatgca tcaaggaatt 300
gacgacatta tatgaaaatg caacga 326

<210> 28247
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B9

<400> 28247

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aggtggtatt gagtcggttt aaatccatag caagctaaaa ttcacccaa tttattccaa 120
tacctccaa tccacatgta attagaataa ctgaacaagg tcttcagtgt ttcattctat 180
tccacacact tagttcaact ttgtttaagg tatactacat tacccttgta cactactcag 240
cctgtgagtt catatcggtt atgatgattg cctgtcactc atcaaactat acttttcatt 300
atccatagaa aaaaaaacg aattaggttt ttaagacagc tagcttttga tacatgtgtg 360
tgttatctca atattatgag ggctccaaaa gagtatgatg ggtagctcga gtaaatcgaa 420
ttaaactatt ttttactggc agatatctgg aacagttta 459

<210> 28248

<211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-D3

 <400> 28248

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 tcaaggagat caacatccaa gactccaggg ataaaaccag ctccaattcc ttgaatcttg 180
 tgtgggtccag gttttccacc attcaaaaca gcactctcca ctgggtccac accatagagc 240
 ttgacattag gattttgctc tctgaggtat cgcccagtac cggatgatgg acctcctgtc 300
 ccgataccag atacaaggcc atcaatTTTT cctgctgtag ctttccagat ttcaggccca 360
 gtagtctcat agtgaatctt tgggttagct ggattttcaa attggtgaat gatgtaagag 420
 ttgggtgtct ttgcttggat ctcttccgct ttc 453

<210> 28249
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-A3

 <400> 28249

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 tctgagataa tgaaaagcgc tgaaagagaa cgagctctaa atatgctcat ttcactattg 180
 tgttcacatt ggctagcatg gaagtgtgtt tattaggaaa ctgccgcaac tgtatttcta 240
 aaaataagga ttatctcaac ttaattatta tgcaacaaat taatcattta tgacaaatag 300
 ggctat 306

<210> 28250
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-A4

<400> 28250

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gagccagtga agcagtggcc tgttcgagag aattcacctc caatcacaca tgctgcattc 120
tcgtgtgaca gtcaactgat ctatgcaagc tttatggatg ccactgttgg catatttaat 180
gcatcgagtt tgagacttca atgtcggatt cttccagctt cgtatctccc cccaaatata 240
agtccgagtg ttcacacctg tgtggttgcg gcacaccctt cggaagcgag tcagtttgct 300
ctagggctga ctgatggagg tgtttttgtg gtggaacctt tggaatcaga tagaaaatgg 360
ggaaattctt caacggtaga aaatgggtct ggttgcaact tggccggaac ggcttctaata 420

<210> 28251

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A5

<400> 28251

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aaaactagct agtagctgcc tccctcgatg caagcatgaa atatgcaagc atgcgtgcat 120
ggctagctag cttctcaaac tcaagttatt aattagtaga gttataaagc tatatagcca 180
cttcaaactt gggacgagcg agctgaatct tctgtttttg ttactatggc atggtgtgtg 240
catgaaggaa agaaaatggg aacacatgga catgcaagtt gattagtaga agagtttcat 300
tgtatccctt atatattctt gtggtgcatt attttttact tagttcgcgt atgtattatt 360
gtggggagtg ggggaaattt gaagggttac tgataaacgc ctcgtaacat ggggggtggg 420
aagggtgtac acatgtataa tctctggggg attat 455

<210> 28252

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A6

<400> 28252

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ccccgagtgcc tgccggaatc cgagatcccc gaggcagctt cccacgggct cctctcacta 120
 cggtagctgg atcaaaccat cgtgctctcg tctcgacaga aaccccgcc gaaaaccag 180
 ccggacccag ccctgttcgc cgcgcgcgcg gtgcccaggc cgtgccagat ctgcgagatc 240
 cgcgcgcgaca ccgctacgac tatcaccagg tggatgctct cgtgatctct cggaggccgc 300
 ggggactgag cagcgtctcg gggcgggcgt ggctgcata agctgtggct tgccgagatg 360
 caacggaacg gggtggtgga atgc 384

<210> 28253
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A7

<400> 28253
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 gggactatct tgtagctgtc tgagatgatg caagcatgaa atatgcaact atgcttactt 120
 gggtagctag atcataacac tcaacttatt aattaacata gacataaagc tatatcccca 180
 cttgaaacat gcgactatcg agtcaatct tctgccattg ctactatgat atgctatatg 240
 catgacgaca ccaatacgac tataaataga catagctct gatgagctct gagagtgccg 300
 attggactga tcatatatct ttgcggtgca ttattctgta cagatgttgg ctatgcaaga 360
 tgcaacgg 368

<210> 28254
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-A9

<400> 28254
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 tgtcgccggc ggcgacaggg ttccgttttc cttgctccgg cgggctgtaa atgcttcgg 180
 ccctcttcgg tgctcagat ccggtggtgc tcgttcttct ggtcttgatt cgagtgggag 240

gggaaggggt cgcttcggtg ttgggtgact cggagacatg cctgcgctct acgcttacgg 300
 agatgacggg tgcctcgtct cggcgccggc tgagctggcc ggactcttct gccgcggcgc 360
 cgtgcagcag cggaagcgca cgctagtggc cgcgtccgct gtggccgnc 409

<210> 28255
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-025-Q1-K1-B1
 <400> 28255

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 cgggctgacg ggggttcggct tcttcgagcc attctggctg atcgacgtgg ccaacgtggc 120
 catcgtggtg cacctgggtg gcgcgtacca ggtgttctgc cagcccatct tcgccttcgt 180
 ggagcgccgc gccgtcttgg cctggcccga cagcgccttc gacgcgcggg agtccgcgt 240
 ggggcccctc gccctcagcg tgttcgcct cactggcggt tcggtgttcg tgtgcgccat 300
 caccgtggtg gccatgcttg tcccccttt 329

<210> 28256
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-025-Q1-K1-B10
 <400> 28256

gatagaatat agaatttttaa aaagggagcg aaatagggtt tttccttttt gcagctccgt 60
 cgtccaccaa cctcctccga tccggccgct gcagcgtagc cgaattgtcc cctcgttagc 120
 ttctccggcc ggctagaggc tgtttcaggc ggcctcgatc tcctccgcgc ggctgaggaa 180
 ggagatcacg cggttgctca ggggctgggg cgtgcatgat gggatttttg ttgattccga 240
 tggagactcc ggcgaggett ctgtggagca cgagcttctt ccgccacaag atcgccgcca 300
 tgctcgctn ctcctcctgc ttcttataga tcccaccnc tcgcgctcgt cgtcggcacg 360
 gcagctagct cgctagcttc tgtacatagg tcgacgcgcc atatagatac tagtctcgga 420

ttaagc 426

<210> 28257
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B11

<400> 28257

cacgtacaca ctaatggcta attcggatca ccgttaatcc atgtgtattg gctgggtactg 60
cggccacata gatcctgcga tcatccatat caagctaaaa ctcatgttaa tttatttcac 120
tacctggac tctcatgtc tgtagaatga ctgctcaagg tcttcagtgc gtcatactat 180
tgcaaact cagttgatca ttgtctaagg catactacat tatacttgta cactactcag 240
cctatacgtc catatcgctt atgatgatcg ccagctactc atgacataat acttttgatt 300
atctatacta ctacataccc tattaagaga ttaagacagc tagctgtcga tacatgtacg 360
tgatatctca atattactag ggctcctaaa gagtatcacc atatacatgc tgtaatcgga 420
ttaaacta 428

<210> 28258
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B12

<400> 28258

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gctcaacaag ttgtggggaa taatgtgcat gaactcacca aagggtgggag ttgatgtgta 120
gtgtaaggct gaacaacaaa taatggttaa agctgagcat ctcttttaat aagttggtca 180
aaaattatta gcacttacta aatgtaagt tatgccaacc caaagtaata gtaaatcaaa 240
attaataata aaccataatg tgatgcaaata gacaaattaa gtttacttcc acaaattaat 300
tatgtgagtg tacgagctat ctaggtggcg tctcctagtc agcttgatgg cgccaaggaa 360
taattattag ttctttttat tggtatcggt tatttttttt aagactcttc cgctatgtaa 420
taatgatgtg acatttatct ctataca 447

<210> 28259
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B2

<400> 28259

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tcctactccc gccgcctaga ggcctcgccc tccccctcc ggcgaaaacc gattctctcc 120
ggcgtttctt ggtcccttag tgcaagcaag gacaccgctc ctctagcgag ctccgttctg 180
aagcggcaag aaagatgatt aatcttttca aaataaaggg tcaaaagaaa gaggaggcag 240
caagtgcctgc tggaaaggcc cctgttaaga aacagtctgc tggggagctc cgtcttcata 300

<210> 28260
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B3

<400> 28260

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tgtactcgga tcagatctcc accgggcgca agcgtccat ccatgaccgc cttgacggcg 120
acctccctgc cggcacgggc gccggcggcc gtgtccgtca cacggtgtcc aagaggcaac 180
gacagataga tgaaaaatgg aagcatgata tgtatcgga agatgatgaa ccagcttcaa 240
aatcaacaga tccgaaggat ttgcgattga agcttcagag gcgaagtttt caacaagatt 300
ttaccagcac aagaagttct ggtgtgcgtg atctacgtga gaagctatct ggtataatga 360
acccacagcc atcaaagct gacccaccaa agccaaagcc aaagccagta tcggagggtg 420
gtaacatctc aaggcgtcaa attgctgatg aaatgcatg 459

<210> 28261
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-025-Q1-K1-B4

<400> 28261

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agagttctct caacctcatc ggcgggcgcg aagagcgtgc ggatcggaga tggagacaag  120
cgggtggagg aggagagcgg cggcgcgggc ctntcggagc cccgccacgg tgtacctgtg  180
gctcgcgctc gccgcagcag cactgacgct cgcccaggct aagaaggacc taacggaggt  240
taccacaag gtctacttcg atgtcgagat tgacggcaag cccgcaggtc ggattgtcat  300
ggggcttttt gggaaaga                                     318

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<210> 28262
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B5

<400> 28262

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tcgcttccct ctaatttcca gcccagtagt agggagacta gaatcgtcgg cgcgacgcct  120
tggcagattc gtccgccccg atcccaccac caccgtgccc cgcgggtgac gtcggaccgg  180
cggcgatggc aacgtcggcg gcggcgggat cgcgcaggaa ggcgccgagc cctccgaagc  240
accgtcacga cggtagctcg ccgctgcctc tcggcatgga ctggagccct cccccgaaga  300
gatgggaggg aaggaacacc atatggccac acaaccctca aacaggttgg agttactgtg  360
tgatgatgcc ttcttgatc                                     380

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<210> 28263
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B6

<400> 28263

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cctccctagg tagcagcttc tacaatggag gcatccaaca agctcgagc cttgctcctg  120
tggctgggtc tggcagctgc cactgccgtg cacccttctt actctgagaa ttcgcctcaa  180

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gactacctca ctccccaaaa cagcgcccggt gccgcccgtg gtgttgggcc ggtgacctgg 240
 agcacgaagc tgcagcagtt cgcagagaag tacgccgcac agagggccgg cgactgccgt 300
 ctccagcact cgggcccggcc ctacggggag aacatcttct ggggggtccg cggttcgat 360
 tggaaagccg tggacgcaat gcgatcgtgg gtagacgaga aacagtggta caactacgcc 420
 accaacagct gggccgctcg caaggtgtgt ggccactaca c 461

<210> 28264
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-023-Q1-K1-G5

<400> 28264
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 gcctttgcgt gttcgtggtc cttttgcgct ttctcgtccc tctttctctc aatctctcct 120
 tattcttctc cttccacggc gaagccggcg gctggatatg atcccaatgg cctcaaaact 180
 ggaggccttt tgctcccac catcgagagg cgggtgcacgt cgcctccatc cgtcattgtc 240
 atcggcgggtg gcattctcgg cgttgcagct gcccggtgcc tctccaattc ttcatttaag 300
 gtgactgttt tggaatcgag agatcgtatt ggcggggcgca ttcatactga taactcgttt 360
 ggatgcccac ttgatatggg agcctcatgg ctacacngcg tgtg 404

<210> 28265
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-G6

<400> 28265
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 gaggttgggt ctgggacacc atggctccga tgaagctgta cggggcggtg atgtcgtgga 120
 acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgccc 180
 tcaacttcgc caccgcccag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc 240

aggttccagc tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300
acgctgctcg caaaaacaag ccagagctgt tgaggaaggg aaacctcgag gaggcagcaa 360
tggtggatgt ttggatcgag gtggaagcta accagtacac cgctgcactg aatcccatcc 420
tcttccaggt cctcatcagt ccgatg 446

<210> 28266
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-023-Q1-K1-G7
<400> 28266

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cggatgctac atcgaccaa gccagagcct caatgtccac atggagcaag caaactttgg 120
gaagctgacg tctcttcact tccatgcttg gtccaagggc ctgaaaactg gaatgtacta 180
tctacgcaca cgagctgctg ctgatgcgat caagttcaca gtggatacca cgcttctgaa 240
ggagaatggg aacgggggta gcgatggaaa gcccg 275

<210> 28267
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-023-Q1-K1-G9
<400> 28267

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tatatgctat tgggtggggga gatggaaatg aaactttttc agaagttgag atgtttgatc 120
cataccttgg gaaatgggta tgtgggtccat ctatgctgat ttctcgattt gctcttgctg 180
tggtgaatt gaatggaaca atctacgcca ccggtgggta tgatggaagc atgtacttac 240
aatcagcaga acggtatgac caaagggagg gtgtctgggt ccgtcttcca agcatgaaca 300
caaagagggg atgtcatgcc cttactgtcc tgggagaaa cctatatgca atgggcggat 360
acaatggaga caagatgggt tctagcgttg agatcttcga ccctcgg 407

<210> 28268

<211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-023-Q1-K1-H1

<400> 28268

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gatgcgccgg cttctgcgta gccaccatcg aaggtccaac tacctccgca cataaacagt  120
tgcgccacca cactcccaga atttctcccc cacagcagta ctaggtgcag agaaccctct  180
tcttccactc gacgtccagc catggcgcac gtcacacaag tctacttcat gtccgagctc  240
ctccatggac gcagggatct tccgcggttc agggagtttt atggccgaag gcttctgctg  300
tgtcaccacg ggtcaaacag cgagggaaaa cgagagaga gaggaaggag atggagccgg  360
atgtcgctgc cgcgtncac acggagagat ccagaagaag a                               401
```

<210> 28269
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H10

<400> 28269

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ggtgctcaag aggagcttcc tcgtcgagtt catgttccgc taccgcgctt gggacgagac  120
caagatcgga atgctcaggc gcgtctaccg cttcgactac gtctcgctct tcttcgcgct  180
catcggcctc aggagatgaa tcagacggca gatagtgcgt tgaacaattg agcctacata  240
atctgtactt cac                               253
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<210> 28270
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H11

<400> 28270

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actgagaaca tggtgggtgg caagaaagtt acagttgtat ttgtcctagg tggtcctgga 120
 agtggaaaag gcacacagtg tgccaacatc gtggagcact ttggattcac ccatcctagt 180
 gctggagatc ttctgcgtgc agagattaaa tctggctctg agaacggaac catgattgag 240
 aacatgataa aggagggaaa gattgttcca tcggaggtga ctataaagct tttgcaggag 300
 gcaatgataa aaagtgaaaa tgacaaattc ctgatcgatg gatttccaag gaatgagggg 360
 aatcggatta attgtaattt ttttagctgg aatcgaagca ggcaa 405

<210> 28271
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-023-Q1-K1-H12
 <400> 28271

gcgaatcgac gcgcctatct cagcttgctg cactgcactg cactgccctg ccatcatatc 60
 gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120
 gcgctggccg tgctcctggc ggcgaccgcg gtggctcccc cggccgcggt gcgcgcggcg 180
 atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240
 ggggccatgc cgcgccagcc gtgctgcggc ggcattccgca gcctgctgca gcaggccaac 300
 aacacccccg accgccgcac catctgcggc tgccctcaaga acgtcgccaa cggcgccaac 360
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 ccgt 424

<210> 28272
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-H2
 <400> 28272

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 ggtgtattct ttgacccca tatctcattt cttgcacca tccattttgc agcatttcaa 120

atttagcaaa atctcaacct gcagtggagt tgcaagttgc acatagttat catcgcatag 180
gcacgcatgg caggggtgtat ttcttggtga taaccgggga atgagaagac agcgatagtg 240
aaatactcct agagttgatg accaccacct agtttttttc ttctttggtc tacatgtata 300
attatgccgc ctgatacctt ttgggtttca gtgtatcata tataccagtg tacaggttcg 360
gacctgaaca ttaatttgat tgatagtggc ctactgatct ttatgtttt 409

<210> 28273

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H3

<400> 28273

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cctgccaaagc cctacaacta caagaagata gctgatctac ttctgtccga ttgagctaac 180
aaagggtgaag ggacggcaag tcaatgccac ggtctgcctc cctgatgaat ctgcgtccgt 240
cttttgccgc atccgagacc aaaagggaga gtccctggta tatgggctcc actccatctc 300
gtgggttcta tagctagtga aagtactacg ccggcgagct catgcgagc atcgaccgcg 360
ccgaccagcc gtcgggtgac atgtcgtcga gggcgatgac tagcgccatg gac 413

<210> 28274

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-H4

<400> 28274

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atgagaggaa gaggtcccca gcaggcgagg aggatgagga gcctcggcgc ggatcatcata 120
ggtcaccccg tccagcgtcc atgtcacctc ctgggtcacg gtcaagggtc gcgtcgccctg 180
ctatcagcga ctgatgaatg tggcgcgat ggaactgttg gcccacatgat tggggcggtt 240
tgtcagaactc ttgttatatc tgctgctagg ctctgttttg attttctcc gtggattgtt 300

tgtgtatgtg gggctaagtc cggtagttgg tttgctcgga atgaaatgag ttggtggttc 360
gtttgtcggg ggagactctg cttgtaacct ggtatggat cagtggcatt ntgtgcttgc 420
tgtttaggat gatga 435

<210> 28275
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H5

<400> 28275

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accaacgacg agaggggccc tttcttcttt gcaaattaag atatatatca accgaggaac 120
gtaccaatgc agctactgtc gcccatgtgt tgtgtgtgat gcatagcata ccttaccttc 180
tgtatccata acgaaattta agaggagaga attttgcctt gccagccgtt tctc 234

<210> 28276
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H7

<400> 28276

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gcattgaaaa aaatttgtgt ttgcttaagt atgatttttg aatgatttat ctgttaggtc 120
gagattgtgg tgcaagttaa tattagatag catgtttcaa tgggtggactg ttacggtttg 180
agcattagta tcgattgcgg aagaatttct tcctgacatg tttatatagc ccctcaacca 240
atagacttta agcccctttt ccctattctt gtaccccgag tgccacatgg tgaatggccg 300
cggttgcaca cctcaaaaatc agtggctcga ttctttgtgc gaaggtttag aaccacagac 360
agaaagcacg gatatttttg 380

<210> 28277
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A10

<400> 28277

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gcactacagc tactcaccat caccatgttt ctctgtcgtg cgtcggctgc agatagcacg 120
gcggccagga ttgggccaga ctacttcag gacacctgct cggcgaggat ttctccgggg 180
gcacggtgcc agcctcgcaa gtgcgccgcg gactgcacca ggcaattcag gggcggcgtg 240
ggcggctgtg accgctcggg gtgtacgtgc gtctacacct gccctgcggg cccgccactg 300
gcaaagaatg aatcgatcgc gtgacctga ctgtctcgat gcacaagtag tgacgtgacg 360
gacgggctag tagccgacct gtgacggatt tgcccgctctg atgaaaatcg tgaatgagtc 420
tgatg 425

<210> 28278

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A11

<400> 28278

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ggagctgcaa agtccgttgg aattatcttg tagcagtttc tcggcaagat gagtcgcttc 120
attcactgta cgtcggtgcc ggctactctg aaacttacat actataagaa tctggtcctt 180
tact 184

<210> 28279

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A12

<400> 28279

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tgggcgaagc cagcaacacg catgcactgc gacgtgcagc agttctaagt ttaaaccttc 120
gaagtcgcct gatgttgtgt catgtcatgg taggcctacc gattgatgaa ttctcaagga 180

agactatgga tgccattgca gaagagctga cttatgagaa gacgcttgct tactcatgca 240
 tgcagtaaatt tctaccacat gcagagagca c 271

<210> 28280
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-G4
 <400> 28280

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 cgactacaat atcgtgcaca taacttcgca ccatcacaca agaccacgac acatcgatgg 180
 aacttgttta gtcaggttcc agctgtacag gatattgaat tgtacctgtt ccaatcaata 240
 gcaatctgca agtacgctgg ttgcacaaac aagccagagc tgattaggga aggaaatctc 300
 gaagaggcat taatggttga tgtttgatc gatgt 335

<210> 28281
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F1
 <400> 28281

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 cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccggg atccacgaaa 120
 ttgtcgctaa tggctaaaaa caatggtagt atcttttttt tactcctttt cttttggctt 180
 tcatgctacy ggaagtttga ggggattcaa ttaattagag tatatgtaag tttggtttcc 240
 agtcgaatct atcattcggt gcaccatcat tcttccttga cacagtacac c 291

<210> 28282
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F10

<400> 28282

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ttgctgctgg tagaagcagg cgtgttgaag tggagcgtac attgactgac tcacagcgtg 120

atgaatttga ggacatgctg cgagctttga cattagagag gagccaaata aaagacgcca 180

tgggatttgc cttggataat gctgatgcag ctggcgagat tgttgaggtt cttacagaat 240

ccttgacact caaggagacg tctattccaa caaaggttgc tcggcttatg ctagtgtctg 300

acatccttca taacagtagc gtcctgtga agaacgcac tgcattccga acgaagtttg 360

aagcttcttt gccagatgtt atggagagct ttaatgactt gtatcgcagt atca 414

<210> 28283

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-F11

<400> 28283

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gtggaagagg cggtagcgat ggagtcgcag accatccgcc acatgatcga ggatgactgc 180

gccgacaacg gcatccctct tctaacgtt aactccaaga tcctatccaa ggtaatcgag 240

tactgcaaca agcacgtaca tgccgncgnc gncgncgncg ncgncctcgaa ggccgggttcc 300

gacgacgtgg gtgccgnctt cgncaacagc accgncgnct tcggtgagga cctcaagaac 360

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<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F12

<400> 28284

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tcgtctagct taccattatt ttcatttcat gagatggatt tgatctgctg gattatgcat 120
 taattgtttg ctgctgtatt tacatttgct tgtctgatta attgtttgct agctaattctt 180
 ccggcctcta catctctcta tctatctata ttacgtgca tttattacga ctctattaat 240
 tgaattattg tacgtccgtg tcataaatta attaattaat actataataa tagttgtatc 300
 t 301

<210> 28285
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F2
 <400> 28285

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 tgtatcgaac caccagccgt ctttggtatt tccctgcgtg acagaccttg tatcatctat 180
 acatgtgttt tagccagtgg ctgtattgta caactttatg ttgtgtccgt ctccataaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacaa aaaatataaa 300
 agatccaaac ataacttaca catacattca acggcataac tcttttatag agccacctaa 360
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<210> 28286
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F5
 <400> 28286

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 cctcgatcgg gtggggcgcg accacctgat gcgggatgaa cgacctgtgg gtgaagcact 120
 gctgcatgtc ccacacggag tcgttcaagg acctcgcat gacctgtctg ccgagccagg 180
 tgaacccgct ccgtcgcgcg ccgctgtcgc gcccacatcg cggcgctcggg tgctcgtaca 240
 cagcggacac ctcggtcgga ctcttcggct actgcgccgt cgttgggata ccggccatag 300

tgtttctaca tgacaaccgc atctcgctgg agcagc 336

<210> 28287
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F6
 <400> 28287

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 cctcgctaga gagcgacata agcttgtgat cgccaacgaa atcgatcaag tgaatgagag 120
 gctacaggcc cttgaggcag acagggagta cataaaacag tgcgtgaggg ccttgaaaag 180
 gggaggcgaa gggttcgatc ttctccagga gatattgcag catcttcggg acctaagaag 240
 gatcgagcag cgcggaagga actctgggga gctttcgçct cattacctac atctttacac 300
 ggactgaaga tcagctgcaa agtctcgtgc ccaatattgc ttgaagatgg aaaccataag 360
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 g 421

<210> 28288
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-F7
 <400> 28288

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 gtgccacacg gagtctttca atgaccttcc taatgaccgc ctggtgaccc agaccaactc 180
 tgctgçgtca cgcgccaata gtcgctcccc atcgccggcg tctgatactc gtccacggga 240
 tacacctctg ccgcactctc tccctactgc gacgccgagg acatccatga catcgatttt 300
 cttcctgaca accgcatcta gctcgagcag gtcattcatc 340

<210> 28289
 <211> 432
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F8

<400> 28289

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acaccctgta cgaccctac cgtgaggggtg ctgactttgt gcgtggatac cccttcagcc 180

tcagggaggg tgcccacact gctgtctccc acggcctgtg gctgaacatc cctgactatg 240

atgcacccac ccagctggtc aagcctaagg agaggaacga aaggtacgtt gatgctgtca 300

tgacaatccc caaggaacc ttgttcccca tgtgcggcat gaaccttgcc ttcgacaggg 360

atctcattgg ccctgccatg tacttcggtc tcatgggtga tggccagccc attggtcgct 420

acgacgacat gt 432

<210> 28290

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F9

<400> 28290

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<210> 28291

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-G1

<400> 28291

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ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat gacattaagg 120

tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc cgctggtacg 180

agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctggttgg gttaaactctgc 240

ctgcgggatc agctcctgcg gcagctgctc ctgcggatga ggctgaggac gatgatgacc 300

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ctgccaaggc ctcttctaaa aagaaagaaa gt 392

<210> 28292
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G10

<400> 28292

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agggtgctgta tctgacgttg taaacaagaa ccaaagttca tatagttgta aatataaatt 180
ggaatcatta ctgggaagca tgtgtgacct ttcacaaagg tcgggcctga tgaaatttct 240
caaaaatgcg atactgcttc tgcttggtgt tttccctcgt aatcatatcc tggaggaagc 300
tgttcttggt actacccaaa tgtttactcc tcaagagaac tcttctcca ttcaaactaa 360
tgcacacgg gctttggcca aaagtatgtt gaagaaagac cgacaggatt tttt 414

<210> 28293
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G11

<400> 28293

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gtctagtcga taccttatgc ctgtacgcta aactgtatag ccagatcaga tgctgacgaa 180
tatgtactgt tagctaggac ctgtgtgacg gcatgtacag ctactagcat atcagctttg 240
tcgcatgtaa aatgcaagcc caaagttgca gaacccggac tgctcgtaca agtacatggt 300
gaactactag ctacaaggct gtaggcagag tctctgtcga ctgtaactgt atgtcatcga 360
ttcactccag atgttaactt ggcgtatc 388

<210> 28294
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G2

<400> 28294

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aaagtacttc aagcgcgag taaggttga ctggccagag ggagcggcct cacgagagag  180
catgaaggca gtctggaaat tgcctcgtct gcagaacctt gtgatgcaac atgttgatca  240
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cctgaaagca catgaagctc tacaacaccc tttctttacc agatgcatca gaagatgtgg  360
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agaactacaa aaaaagtgag at                                     442
  
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<210> 28295
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E9

<400> 28295

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ggtgatcggt cacctgtacc cgttcctcaa ggggtctcat ggtcggcaga accgcacccc  180
gaccatcggt gttgtctggg cgatcctgct ggcgtcgatc ttctccttgc tgtggggttcg  240
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ctagggaggt ggaaggtttg tagaaacaga gagataccac gaatgtgccg ctgccacaaa  360
ttgtctgtta gtaagttata ggcaggtggc gttatttaca gctacgtac               409
  
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 <211> 113
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G3

<400> 28296

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gaaggaaaaa taataaatga aagaaaaaaa taaacatggg tgtccacttt cgg 113

<210> 28297

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-D3

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gagggccgca tcacatgcg caagaccgtg ggcaagccca aggtggcggc gtccggcagc 180

ccctggtacg gccccgaccg cgtcaagtac ctcgccccct tctccggcga gccccgagc 240

tacctaccg gcgagttccc cggcgactac ggctgggaca ccgncgggct gtccgncgac 300

cccagagacct tcgccaagaa ccgcgagct 329

<210> 28298

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D4

<400> 28298

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ctccggcgtg ctccaccoga cgctgttcgg taacctcacc agccttttga agtgtaagat 180

ttgttattct ttagttatat aatttctagt agagacaact taagtattac aactatgtgt 240

tagggagggt tcaggaaaaa gaatgaattt tgtattcagc atatgtgcat aatagggctt 300

cgatttctaa gtctctgtaat actggaagta tgcataagtg cataacagag tttattaaag 360

aaagaaaagt cctcacttgc tggcagttta tccattgtat ttttgtaaataaaggttatt 420

aaagaatgaa a 431

<210> 28299

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D5

<400> 28299

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ctctgggtacc gctaaaccca gcgaaaatgt tactgcatg gaggggaatg ccgctcccaa 180

tgtaaatagc actatttcaa ggcctatgcc acagcggcct tggcagcaga caggttatgg 240

aaacacctat ggagggtatg gtggatccaa catgtatagt tcatatgggtg gatttggcaa 300

cacttatgggt accggtggac tcggaatatag catgtactcg agttacggaa gaagttatgg 360

tgggtggcatg tacggtgggtg gcatgtat 388

<210> 28300

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D6

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ccagcgttgg cgagagctgt tgtctatggt ggccttcgggt ttggactgta tgagccctgc 120

aagcatgtct gcagttatgc atttgggttca acaaactttg ctttttaaatt tgcacatgga 180

gtcattgctg ggggccttgc aactgcttta acaaatccca tggaagtttt gaaggtgagg 240

ctgcagatga gtaaaagcag taccagtaca ataagagaga tgagaaaagt tatagcgcac 300

gaagggttta aagcactttg gaaaggagtc ggcccagcaa tgacaagagc aggttgcctt 360

actgcatcac aaatggcgac ttacgatgag gccaaacagg ccttaatgaa gtggacacca 420

c 421

<210> 28301
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-D7

 <400> 28301

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 ggtggatcgc tgcgcagagc gtgttctatc acttatataa ccaggtgtcc tacatgtctc 120
 tcgatcagat ctctccattg acgttttagca ttggcaatac aatgaaacgt atatcagtga 180
 ttgtttcatc tataattatc ttccacacgc ctgtccgccc tgtcaatgca ctgggagctg 240
 ccattgccat ccttggcaca ttcctgtact ctcaggcaaa ggcgtgaggc taaagctttg 300
 gcctaaggat cggagccagt agcaggcact ggatccagtt ttgcttgttg gagtggcatg 360
 tatatataag gttcggtttt cgtgagagag aggggt 395

<210> 28302
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-D8

 <400> 28302

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 ggtggtgctc gaaggcatgg gaagagcaat tgaaactaac ctatatgcgc agatgaaatg 180
 tgactcgatc aagattggaa tggttaagca tcctgaggtc gcccaatttt taggaggaag 240
 actttatgat tgcgtcttca agttcaatga ggctgaact acgagatata tttgataaca 300
 caataccggc cgcactagtg gtggcttagt tctccccaag atcagcttgt taggtgttgc 360
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 ggtg 424

<210> 28303
 <211> 446
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E1

<400> 28303

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aggtggagga cgagcggacg ctggcgatca gtgggttagcg gcgccaggag gagcgcgagg 180
actccaagta cctgctcatg gagcggcagc tgcgcaagtt catgcgcaag ttcgtgctgc 240
cggacaactc cgacatggac aagatctctg cgggtgtgcat ggacagcgtg ctcaccgtga 300
ccgtcgagaa gctgcccccg cccgagccca agaaacccaa gaccatcgaa gtcaaggctcg 360
cctgatgtgg gactaggtct accgatcgtg gctctgaaga tgtgggagca gtgccagcga 420
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<210> 28304

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E10

<400> 28304

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gttttagctg ttatgttagt gtgtgcaact aaaactgggt aattaatgat atcgtttttg 180
tcgaccgttt gtgt 194

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<210> 28305

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E11

<400> 28305

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ggtacacatt gattactcaa caaacatac tatic 94

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<210> 28306
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E12

<400> 28306

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 gtaaggatgt cgtatcattc ctttcgtggg cagctgagcc tgagatggaa gagagaaagc 240
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 gccgcatgag gtggtcagtc ctgaagtccc gaaagctggc cctggatgtc gtcaactgag 360
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<210> 28307
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E2

<400> 28307

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 atgcgaaaac tgtgccgctc cttgccgaac ttaagccccg ttacgttgtc gcacaaagtt 180
 tatttcctag cactgtgctt gctgcttatg tttgtttgga tgtgccaacc tgcagtgacc 240
 ctctgggagc ctgggtctca cgctcctctt acctagtgtg atgtgcagaa aaagtgtgat 300
 gctgtaaaat tatgtgattg cctagcagat gtcaaatttt caatcagtag ctaactcctt 360
 ttaatggt 368

<210> 28308
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E3

<400> 28308

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gttgccctgct tgatttagaa ataaaaacat ctgtttccca gtgattgcag acagatgggt 120
gtttgggtggg gagttcacca tgctgtttta ccatccgttt acattgtcca aacaaaaata 180
ttatcattgc tacatcagct gcttttctca ttggttt 217

<210> 28309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E4

<400> 28309

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aggtggcaaa actcaaggac cagaatgagg agttgcagaa aaagcagggt gaaatgctaa 120
agaagcaaaa ggatgaggtc ctggagcgaa tcaacagcca acatggacca aaggcaaaga 180
agctttgcct gcgcgcacc ctgactggcc catggtagcc tgctgaagct tgcacaaaat 240
tgaccgaagt caagatcgtc gggccagatg tgcccgtgtg tatatatcag atgaagtcaa 300
gagtactgag taccctgtta ccctgtaga ccgcgctac ttcagagctg ccgttcttgt 360
tctgtgacgt gggtagtctg cgctgacag ttcgctgttt aggttcgggt gcgcgaccc 420
tacatg 426

<210> 28310

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E5

<400> 28310

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tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
tcctcttctt cgcttcgcc gacgcatgcg gctgcagggt cggcggatcc tgcctagtc 180

caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtgggg 240
 gtgggagtgg aggggggtgga tcgggtggtg gcagtggagg cggaggatct ggtggaggcg 300
 gcagcagcgg tggaggcggc ggatctggtg gcggtggaag cggtggcagc cgcgatctg 360
 gcggcggacc gactagc 377

<210> 28311
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E6

<400> 28311

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 aaaataatat aattaaaatt aaaagacgca atagaagatg aaagagcgaa aagataactg 180
 aaataatata gacagaaaat ggctgtagct tttgaagatc tgattgtagt ggcgggtggaa 240
 gctaagaagg tgggagctga aaggaatgca ctaattgaga gcttggtggtc ttattacaat 300
 aaatgtgtag gcggtgtaga ataccagttg catagtatct tgcgcaattt taataaaaga 360
 cggattccat tggatggtga taatggaaaa 390

<210> 28312
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E8

<400> 28312

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 atagccctcg gcaaccttcg gtcagaagtt atcaagctga gaaatgaagc cttggagaag 180
 gacaaaattc tactttcatt ggtggataga gtgaaagaag atgaatcaaa gttgaacact 240
 caatccgaaa cttataaagc cgaaattgaa gaccttcaga aaaaacttgc tgaagctaat 300
 gagaactttg cacttgcaaa agctagccaa gaaattagtg aatggtcgaa aactagacta 360

gagaaaaatg ttgaagagct tcgtgaat

388

<210> 28313
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D2

<400> 28313

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ctctccggcg tgcttcaccc gacgcttttc ggtcacctaa ccaagctttt gaagctgtag 180
attcgatgat ctctagtgat ctctgtctta gtataaccaa ctctatcctt gcacctatgt 240
gttaggtacg gatcagtaaa aacagttgct gttcaattcg acatatgtgc ataatt 296

<210> 28314
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B9

<400> 28314

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taccgagttt gaagagacca atgcactgct acgagctgtc ttgaaacttc agaaagattg 120
aggtagggat gcataccaag tctgaggatg atgcctttgc ttaagggttt tctaccttgc 180
tagaacatat ctgtgggttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240
aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300
gaattgtgta tgacttgtga tgagaatgtt gtgtatgatg gcttttctgt gtatt 355

<210> 28315
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C1

<400> 28315

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 tgtttttttt ttttgtttgt tttttttttt tttttttttt ttttaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 180
 atgagggaaa aaaggacaaa gtataaaaaa tacatataaa agaaataaaa agaaaaaaaa 240
 ttaaaaaaaa aaaaaaaaaa agaataaaag aaaagttaaa aaaatttata tgaagt 296

<210> 28316
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C10

<400> 28316

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 tatgaagggtt ggtgaggttg caaaaattac atgcaaata gaatatgcat atggagctgc 180
 aggctcacca ccagagatac ctccaatgc aacccttatt tttgaggtgg agctagtagc 240
 ttgcaggccg aggaaagggt caagcttagg cagtgtatct gatgagaaag ccagacttga 300
 agaacttaag aagcaacggg agctagctgc tgctaccaa gaagaggag 349

<210> 28317
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C11

<400> 28317

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 ggagcgacga tggtgagaag gacggtgctg gggcgctgc tgggtggccgc cgccctcgcc 180
 ggcggcgcg gcggcgagct caaggagggg ttctacgact actcctgcc acaggcggag 240
 aagatcgtca aggactacgt gaaggcgac atccccgacg cgcccgacgt cgccttcacc 300
 ctgctccgca ccacttcca cgactgttc gtcaggggct gcgacgcgtc agtgctgctc 360

aacgcgacgg gcggcagcga ggccggagaag gacgcggcgc ccaacctgac gctgcgcggc 420
 ttc 423

<210> 28318
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C12

<400> 28318

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 ttcgcgttgc tggaagcaaa gatggcactg agtaccatcc tccaacgctt ctcctttgag 180
 ctctcatcat cctacactca tgcgccatac accgtgataa ctttgcaccc tcagcatggg 240
 gctcaaatca ggttgaagaa gctttgacca tgatgggtcat actgaatgcc aaaacatgca 300
 ctcttagtaa catattgtga ttgttcatgt atgcagggtt aaatttagct ttgatatgaa 360
 taatgagaac caagtgtgta tgaatggagt aagggtgtaa tcggat 406

<210> 28319
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C2

<400> 28319

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 taaaaaaaaa aaaaattaaa taaaaaaaaa tataaatata taaattttat ataaaattaa 180
 ttaaattgaa ttaaattgaa aaaaattttat aattttttaa atggtaaaaa tttaaattatt 240

<210> 28320
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C3

<400> 28320

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actcctgaag ctaccaaggg cgctcgccc aatggcaccc aagtcaatgt cttgcagcct 120

tctgcaagtt ttctgccgaa gctgcgttgc aacagaaacg tctcgctcgc cgctgctctg 180

ctgttcctcg tgatcctttg atcacctcaa ctcccatga caatcttttc agaaaccaa 240

tcgacagata tgatagattt tagttaaact tggtttacgt tgtatgtatt gagttacgta 300

tagtgtgata gtatcacatt cttttggcct gtgtccacag ttccagtagg agttaggata 360

gaacacggga tgagtccata gccctttttt tttgcacggt cataatgtac ctggtggatg 420

t 421

<210> 28321

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C4

<400> 28321

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tcttctggtg gaacagtaac ttatgagggc cgttttgaga ttctctcttt ggctgggtca 180

tatcttctgt ctgaaagtac tggcatgagc agtcgaacgg gtggacttag tgtttctctt 240

gctagtcttg atgggcatgt tttaggtggt gctgtcgcag gacctctaac tgcagcttcg 300

ccagttcagg tggtcattgg gagctttctg gctgatacaa aaatggagct tgaccctgga 360

tcagcacctg agaaacatgt tttcagcagg tttcaaacta ccagcagtcc atctaggggt 420

accg 424

<210> 28322

<211> 369

<212> DNA

<213> Zea mays

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<400> 28322

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 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240
 gacccgggga aaaaaactgt ttcgtcacgg gtagctagag aatcacgtaa ggctcttgggt 300
 ttcgtttgtg tcctataatg tatggctatt ggcctgtttc gagagggttaa aatttggagg 360
 tgctgcatc 369

<210> 28323
 <211> 369
 <212> DNA
 <213> Zea mays
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 <400> 28323

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 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240
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 tgctgcatc 369

<210> 28324
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-C7
 <400> 28324

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 gctagtgcac tactcatatc tgctcctcct acaaatectt actctaccct atctttcaca 180

ttaacgctaa tcattcttgat ggtctataact tcatcggttta cta 223

<210> 28325
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C8

<400> 28325

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aacggtgctt tgattataac ttaccgccga gggaatttgt attatgacac tgcaacaatc 240
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gatttcctgtg tt 312

<210> 28326
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C9

<400> 28326

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ttcccgcctt ggacagtgtg gccgtgctga tgggtacatc cttgagggtg aagagcttga 240
gttctacatg aagaagctac agaggaagaa gggcaagagc gctgtagctt agagcattct 300
catggattgt cttgcaccga aatgtgtgtc ctgatgagta cacttttttt ggtagtcgt 360
ctcaagttca gagcgttatg ccatgttttc agacctgatt agtacactct tttcta 416

<210> 28327
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D1

<400> 28327

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tctcgcggtc tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctatcgag 180
aacatgaacg gcaaggagct cgacggccgt aacatcaccg ttaaccaggc ccagtcccgt 240
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ggcgcccggt acggcggtta tggcggcggt ggcgggtacg gcgggtcggc cgagggtggt 360
ggcggcggtc a 371

<210> 28328

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D10

<400> 28328

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aaacaagaaa tgggacatgg ggtacatcct tgagtggatg aatttatgct gtcatataga 180
gcgcgaagtc tgcttcctgc gagacaaaaa gctatatgac gttcatacaa gatggtgatg 240
caggatataa cataagatca ttgcttggtc agagaacagc gacatgtata aaaaatctat 300
gatggtatta ctgcttagat gtatatattg gactgataag ggcgatgtat tcttggagat 360
aattgaatat ttattagaaa aggggatgcc gctctaaa 398

<210> 28329

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D11

<400> 28329

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 ggcaaaatgg cgtgacgggg actggttgtg caacaactgc aacaatcaca actatgcatc 240
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 atagcttgct gttggattat tttgttccag gatatgttgc tgctgttct agctccttcc 360
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<210> 28330
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B8

<400> 28330

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 cacggctcct atcaagcaat gaagacaaca tcatggtttg ctttttcagg agcttgaagt 360
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<210> 28331
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D12

<400> 28331

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 acaatgggag ctcaccgaca tataccatgt gtgcaaacaa tgtctagtct tatgggaata 180
 ggggcaacac gctgtgactg gtaatgcgtg tgcaactact gtagcgagga acgctgtgca 240

tatcttgcatt attgcaacat gggccgaact gataaagaat ttgatgttga cgctgtagtg 300
 ttatagattg ctgatagact attcagttgc aagatatgtt actgactgtt cttagctcctt 360
 cctcaaggct gcggtttgag ttctttcgat tctgcattgt atatgct 407

<210> 28332
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-H9
 <400> 28332

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 tccaaggaca ccaggactga gaggggtgaa tcttatgttg caaagccaag cacgaagaaa 120
 tgggtttgtt gtgtgacagc cagccctacg caatcctgag gaagacaact gcatgcgctt 180
 tggaaatact gtccctttaa ttttctatac atactatcca taagacaatg tanggggtacc 240
 caggcctctc cgggctccag gatgggctat ctgtaaaac tcttgctgac gtgtatgtat 300
 ggtgtgagag aattcgcaaa gtggacttct ggttgtaatt cttagtcgtc tctctctctc 360
 tctctttggg ttgggtcacg ttctatgatc cagcaatcca ctgaac 406

<210> 28333
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-023-Q1-K1-A1
 <400> 28333

gtccacgcgt ccgggggttg cagctttaac atcattccga gcagcagcgg ggctgccaag 60
 gctgttgagg aagttctccc tgatctgaat ggcaagctca ctggtatgtc cttccgcgtt 120
 cctactgtgg atgtctcggg tgttgacctc accgtcagaa tcgagaaggg ggctccttat 180
 gaggatatca agaaagctat taaggctgct tccgagggtc cactcaaggg tatcatgggt 240
 tatgtggagg aggatctggg ttctaccgac ttccttggtg acagcaggtc gagcatcttt 300
 gacgcaaaag ccgggatcgc tctgaacgac cacttcgtca agcttgtctc gtggtacgac 360
 aaccagtggg gcta 374

<210> 28334
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A10

<400> 28334

cggacgcgtg ggggttgcgca tttaggaatt aggattagat gattagtgga ttactcactc 60
agacaagcat cttctgcaac aggcaat ttt tctgtttcat aatcaactgg gtctgaaatg 120
tctcatatca actaatggcc gtgagaatgt tatttaggct tatataagtt atacagaaga 180
tatttcgtta tgataatgca caaaagttat ggtgtgcaat gaaaggtata tttgagagta 240
atagaaatag actcattgtg ctgcatcctt aactgtaagt ttcttgtgtg cgactcatcg 300
taatcgcagg tgtttcctgt ttccaatttg caggtgcaaa atgtgttttc caccctggat 360
aggctactgta tttcacttat tttcgtttgt tccctgaact gg 402

<210> 28335
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A11

<400> 28335

cccggtcgac ccacaccacg cgtccgcca cgcgtccgct tacgcattcg ataactcgta 60
cgacatcatt tgcgcatacc agtcggggac aaacctctcg tctgctgcca tgtacaacac 120
cttcatcata aattggaatt gattagacaa atatcaatta tggcatgggc gaatgcgtct 180
tactcttata tatcatatac acacaatctt cagccatgct agtggacaca tattctagtg 240
t 241

<210> 28336
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A12

<400> 28336

cgactgaggg acaagaggggt gaggctatag ctgaggaaac aaagaagagt aacctatgtgc 60
agaggaagat tgagaaggcg gacacatctg ccaagaaaag caagaaaaag aagaccaaaa 120
ccgagactga tggatgatgca atggatgtgg ataagccctc caacgtggct gatggagaag 180
ctgagcttgg aaccgagaag aagaaaaaga aaaagaagca caagctagag gaggcacagg 240
agaacggtgc agcacatgct aatggcgctg aagagacca gactccc 287

<210> 28337
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A2

<400> 28337
cccacgcgtc cggcagctcc acccttcact cagtcttagg ctcttagctc taggctctag 60
ctagccgcgc cactccttcg tgtagccatc agccttctca tcgccaccaa tggccactgc 120
cgaggtccag accccgaccg tcgtggcggc cgaggaagcg cccgtggtgg agaccccgcc 180
gccggccgctc gtgcccagag agtctgcccc cgccgaggcc gaggtgagg ctgaggctga 240
ggctgctgct cctgctgctc ccgaggagct tccggcggcc gagcagcagg cagccgccga 300
gccggaggcc gctgctcctg ctggtgccga ggagcccgcc gcggccgaac c 351

<210> 28338
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A3

<400> 28338
ctcggccccg tcggaattcc cggaccgacg cgtccgcca cgcgcccgcc cacgcgtccg 60
gggctgccag ctttaacatc attccgagca gcaccggtgc tgccaaggct gttggtaaag 120
ttctccctga tctgaatggc aagctcactg gtatgtcctt ccggttcct actgtggatg 180
tctcggttgt tgacctcacc gtcagaatcg agaagggggc ctctatgag gatataaaga 240
aagctattaa ggctgcttcc gagggccac tcaaggggtat catgggttat gtggaggagg 300
atctggtttc taccgacttc cttggtgaca gcaggctgag catcttcgac gccaaaggccg 360

ggatcgctct gaacgaccac ttcgtcaagc ttgtctcgtg gtacgacaac gagtggggct 420
acagcaaccg cgtcgtc 437

<210> 28339
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-023-Q1-K1-A4

<400> 28339

gcgaatcgac gcgcctatct cagcttgctg cactgcactg cactgccctg ccatcatatc 60
gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120
gcgctggccg tgcctctggc ggcgaccgcg gtggtctccc cggccgcggg gcgcgcggcg 180
atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240
ggggccatgc cgcgccagcc gtgctgcggc ggcattccgca gcttgctgca gcaggccaac 300
aacacccccg accgccgcac catctgcggc tgcctcaaga acgtcgccaa cggcgccaac 360
gggagcggca cctacatcag ccgcgccgnc gcgctgcca gcaagtg 407

<210> 28340
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A5

<400> 28340

cccacgcgtc cggccacccg tgctgccttc tttaacatca ttccgagcag caccggggct 60
gccaaagctg ttggtaaagg tctccctgat ctgaatggca agctcactgg tatgtccttc 120
cgcgttccta ctgtggatgt ctcggttggt gacctaccg tcagaatcga caagggggcc 180
tcctatgagg atatcaagaa agctattaag gctgcttcgg agggtcact caaaggatc 240
atgggttatg tggaggaaga tctggtttct accgacttcc ttggtgacag caggtcgagc 300
atcttcgacg ccaatgccgg gatcgctctg aacgaccact ttgtcaagct tgtctcgtgg 360
t 361

<210> 28341
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-A7

 <400> 28341

 cggacgcgtg aatcgaccca cgcttcctta acaaacacaa taagacacac cagggaggct 60
 taaaaaactg gggggaaaga tctacctgat ctaaattggca agctcactga tatgtacttc 120
 caagttccta ctgtaaatat ataaaaataa taacctcacc atcataatca aaaacggagc 180
 ctactatgag gatatcaaaa aaactattaa agctgcttcc taagatccac tcaagggtat 240
 catgggttat gttgaagaag atctggttta taccgacttc cttggtaaca acatgt 296

<210> 28342
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-A9

 <400> 28342

 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgctccgc cagcggtccg 60
 caataaccgg cagcagcaat ccgataccaa tcacagatat acagtaagcc acatctacta 120
 gctcgcggtt aggcattgcac agggcgcggt cgtcgtgctt cgccgtctcg gtgatgcgca 180
 gcgccagccg cgcaggccgg gccataggcg agtggatcgg catcgagccg tcgacggcgg 240
 actctagggc ggccggtgga gcggcgaacg cac 273

<210> 28343
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-B12

 <400> 28343

 gttctagatc gcgagcgccg cccttttttt ttttttttag tttccaagtt ccaaccaaga 60
 atgccattga acatcacttg caaattcaat acttttattg aggagcacia ctttctaagg 120

cttataaata gcccaaaaaa ttctcctctt ctgctgtatc aggcattcag agtttcagac 180
tcacaatatg cacccttcca ttcagatata cgccgttgtc ctctgcatcg taccagctt 240
cctcagctgc aatgcagaag atgccagagc accccagacc cagagcagcc tggttcttgg 300
ccttagccat gtcagatccc tgtacacccc atcactgaca ctagtgaact ccacaggata 360
cgacttcttg gacatcgttg agccagtgc agcatacaca gacggct 407

<210> 28344
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B3

<400> 28344

cctcacactc gtccctaaat ttattttttt aaagcttata gtttgttcca caataagtgg 60
agattttata ttgggcggga tcatactact aataaagtca ttaatcctat caacttcccg 120
atcatcttat attccaataa aaaataaatc aatacacacc atttcatata aatctaatac 180
tcttacataa atttatactt aattaat 207

<210> 28345
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B4

<400> 28345

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ttttgtccc aagccatctt ctggacctca caagtccagg gagtgccttc ctctgacct 120
catcatcagg aacaggctca agtatgtct gaactaccgt gaggtcattt ctatcctgat 180
gcaacgccat gtacttggtg atggcaaggt caggactgac aagacctacc ctgctggggt 240
catggatgtc atttccatcc ctaagacaat ggagaactac aggctgcttt atgacaccaa 300
gggccgcttc cgtcttcacc caatcagggg tgaggatgcc aagttcaagc tctgcaaggt 360
gaggtccgtt cagtttggcc agaaaggcat cctctacctg aacacctacg acggccgtac 420
cattc 425

<210> 28346
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H8

<400> 28346

ctctgaaaac aagcgggcta aaggatgaca ccacctgtgt cgtagttgac attatcccgt 60
ccgatcatct gacatcgcca caattgtctc caaagaaaaa tcagaacaag ttgaagtcac 120
tttttcgtag aaggctgcat agttcagtta gaaagcttgg aggcaagtct gcctccattg 180
gttccgtgga ggagttatatt gaagaagggt ctgcaatgct agaagaaagc ttattttcag 240
cttcttcaca aatttaagca gaagttctgc caaacagcca gcttctacag cagcttatta 300
gttcagctgc ttctcagaat acactaaaag cagccaacaa gcagaagctg cctttcacca 360
gcttctcaga taagctgctt tttcaacaag cagcagctgt gccaaacagg gccttttatg 420
taacatataa tgtgtgggat 440

<210> 28347
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B5

<400> 28347

cccacgcgtc cgattctttg tatcactgta tgtagtacat cactggatgg tatttagatg 60
gaaaacctga gtattcttta tctccacgta tgttcttggt ctgcattatg gcaatggatc 120
ttctgttttg c 131

<210> 28348
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B6

<400> 28348

cactaatccg acattcctct atttctctca tgggtcttaag gagatcaagt gctaggcgtg 60

cggcgaaatt agttacccat gttgggtact atctatgtac tattattata tccaaaacta 120
tagttgtcct ggctgaattg aactcaaaag ggtttgtttg agaaaaaatt gtcccaagat 180
tggattgctt gttaaagctc aatattgtta ttgaagtgtt attgctt 227

<210> 28349
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B7

<400> 28349

cccacgcgtc cggaagtgtg ggggtgggaag gtttgagtg ggtacggtgg aaattggagg 60
tttcttctgt gttgctatta ttactactaa taaggtcatt aatcctatca gcgtccgtag 120
gttgtgattt ttggatggaa atgggatcgg ggtggacggt tggatggaga ttgatgggtgc 180
ttggttgatt ggaatggaat tattagagag gagaagatgt taggttgagg cttgcaagtt 240
gggactggac cagagtgtga ctgtgcgagg gcaggagcag tttcacagtg actgattgga 300
acctgctgtg gggaactgtc gcctgccta tcagaaatgg tctccacaaa tgttttccgt 360
tctacctttt tgaaaaagtc tcaaattatt acattttttg tggcttta 408

<210> 28350
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G2

<400> 28350

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agaccgacag aggaaggtga attgtgggaa agaggacaga aaaatgggga ttggagatgg 120
atcttcaa at gggaaccagc aaccggtgca taaggaaata cgagatgaga ccacaccact 180
tcttccagtc aaggtggaag aagacgaagg gtttcatgag ttcaatggag cttcattctc 240
tggggcagtt ttcaatctgt cgaccacat aattggggct tgaatta 287

<210> 28351
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G3

<400> 28351

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gaaaaagagt caagtgtgtc taaggactca cccaatcat catctccaga aaaagctcca 120
aatggcccag ttcaaccttt agccaatgga gttaaaaaag aaccaccagt tactctggtc 180
cataaaaatt tccagggcat attgaccaat gaaacaagat gcctaagatg tgaaacagta 240
actgcaaggg atgaaacggt tcttgatctt agtggtgaca ttgaacaaaa tagttctatc 300
acaagctgcc tgaaaaatct ctgttctaca gagactttaa acgcagagga taaattcttc 360
tgtgacaaat gctgcagttt gcaagaagca cagaagagaa tgaagatcaa gaaggctccc 420
acatac 426

<210> 28352

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G4

<400> 28352

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tgctcccag gcccgcgtcg agtgagtcca gccagcgccg gacggcggcc gatctagctc 120
gctgcgtcag cctgtcacct ggcgtgcgcc gcgctggtgc cactgccacg gcaacagcac 180
ggcatggcgc cggcataggt cgctaggaaa aacctgcttt tgtgttcggg ttcacgtcgt 240
gtcctacgtg gcgcggcggg ccccgccatg taaaggagcg taggagcgtc gttttgtgtt 300
gtggtcgaat aaataatgtg tctgtgtgcc gatcccgtgt cgggttagtg ggcccactgt 360
cgggtgctgat gtggcctgcc tttacagcac atcgggtggg ctgg 404

<210> 28353

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-G5

<400> 28353

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tgggagtggg ggtccagagc cgccggcgac gcaagcgcat gatgtgcctc agcatccgca 120

accggagccg gagccacgtc tgcctcagca gcccgagggg ccatatgtct atcagccgcc 180

gaagcagtcc tcgtcgtcgt cgtcagggac gaagaggcca gctggagcgt cgccgacgct 240

catcaggagg aaggagaagg cgaagaagct gctggcggtc tgcttaacct tgtgctgcat 300

cctgttcttg cttctgggtg tctgcatcgg gctcgccatc ctgggtggtg accttctgta 360

ccacccaag gggccccgga tccacgtgag caccgncacg ctcaacgccg ggtacatcga 420

<210> 28354

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G6

<400> 28354

gcgcccacgc gtaagccac gcgtccgccc acgcgtccgg aaaacgccac cagacgcaga 60

tcgaattaag ctctccgagt ctccggttcc ctctctcgg cggcgggtca ggtccctctc 120

catcttcggc gggcgctcg gcgtctgacc tcaacacgca agaaagcaaa tggcatgcgg 180

cagggtcgcg catgccacct tcaagggccc gagtgtggcg aaggagatct tcattggact 240

gaccctgggt ctgatcgag caggcatgtg gaagatgcac cactggaacg agcagaagaa 300

gactagggtc ttctatgaca tgcttgacaa gggccagatc agcgttgctg tctaagagta 360

aagagttctt ccagatatt ttcaaagaac tctctcgaga gcatgac 407

<210> 28355

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-G7

<400> 28355

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gctgagtagc ctgagcggag cgtcgtcctc tgcaccttat agtaagaggt tgaactttcc 120
 acatcgggtg gcatcactga tgagatttag ggaaaagcgg aaggagcgga actttgataa 180
 gaagatccgg tacaatgtcc ggaaggaagt tgcacttagg atgcagcgta atagagggtca 240
 gtttacatct tcaaaaccaa agcctgatga aatagcagca tcagaaatgg cagctgcaga 300
 tggctctctg aattgggcac tagttgaagg ccgacctnca tctgctgctg aatgtcatca 360
 ctgtggtatt aatgcaacag ctacaccaat gatgcgt 397

<210> 28356
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G8

<400> 28356

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 atgcgggcag cgacaagtcg tgtgtttggc acgctgctga ctttgccgat ggcgaactta 180
 aggaggagat gtttgccatc aggtttggtt cggtagaaaa ctgcaagaag ttcaaggagt 240
 tggttgagga gatagctgag tcgcttacia agaacgaggg caaggaaggt gaagatggtg 300
 gttccacggc tggattgctg gcgaagctca ctgtgagcga gggcgaatct gatggaagtg 360
 gcaagtctga gtccactgat tc 382

<210> 28357
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H1

<400> 28357

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 acagatatat atatatatat atatatatat agtatttggt taatatataa ctctgctagt 120
 atatatagta tttgttctga attcaaaaag aaaaaaaaaa aaaagcaaaa agagcaaaac 180
 aaaaataaaa aaaaacagaa cagggggccg ctataaagga gcccatatta cgcaacccgt 240

tataggaaag catacatctt ctaaacgaga ccctgaagaa aaatcaacgg gccgactttt 300
 accaagcaca gggctgggaa aaaccgggcc taaccc 336

<210> 28358
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H12

<400> 28358

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 catatggtat gagcaccgcc ttatcgatga catggttagca tacgcactta agagtgaagg 180
 agggatatgtc tgggcttgca agaattatga tggagatgtg cagagcgatt tcttagctca 240
 aggttttggc tcattggggtt tgatgacttc ggtactgggtg tgccctgatg gaaagacgat 300
 cgaagctgaa gctgcccattg gtactgttac ccgtcattac cgtgttcacc agaaaggagg 360
 tgaaactagt acgaacagta ttgcctcaat ctttgcgtgg acaagaggac ttgcacacag 420
 ggcaaagc 428

<210> 28359
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H3

<400> 28359

cccacgcgtc cgcccacgcg tccgcggacg cgtgggctgc aggacgtgca gctgcgctgc 60
 atcgacctca ggcaccggc gctctccctc gacctcagg tgacgatcgc gtcgcggaac 120
 ccgaacgagc ggggtgggct gtactacaag acgctggacg cgttcaccac gtaccgcgac 180
 gaggcggtga cggccccgt gtcgatgccg gcgatctacc agggcc 226

<210> 28360
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H5

<400> 28360

gtacagtcgg ctaggtaatc tgggtggtacg acgacatggc ggccaccagc agcaagtcgt 60
cgtcgtcctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc gccgccgtgg 120
cgggtgtccgt cctggtggtg ggcgcggcgg cgggtgtgcga catgagcaac gagcagttca 180
tgtcgtgcc a gcccgcggcg gccaaagacga cggacccgcc ggccgcgccc tcgcaggcgt 240
gctgcgacgc gctggcgggg gcggacctca agtgccctgtg cggctacaag aactcgccgt 300
ggatgggcgt ctacaacatc gacccaagc gcgccatgga gcttcgggcc aagtgcggcc 360
tcgccacgtc cgccgactgc tagcagtgtg ctag 394

<210> 28361

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H6

<400> 28361

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agtacgcgtc catccaagcg gtgctgttcg gaccgcacct cctcgccggc ctgacacacg 120
gcaagctgcc agtgacagac agcagccact ccaacgacgg cctgaccgca ggcatctggg 180
aagtggacgc cacaggcgcc gcctccgtcg ccggctgggt caccocgctc cactccgaga 240
cgctcaactc acagctcgtc accctgaaac agagcattgg cgggcgcacc ctctcttgt 300
cgggtgtccat cgctgacgag aagctggaga tgcagcagca gcccgcggcc gggaccgacg 360
cgtgcgtgca cgccacgttc cgcgccta 388

<210> 28362

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H7

<400> 28362

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 tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa acaagtacaa 180
 tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag cacaaatcat 240
 ctctgctagt atagcaggtg atatggttct tgcttctgct tactcgcatg agttgccacg 300
 atatggtctt gaagttggtc tgaccaacta tgcagctggc tactgcactg gccttctgtt 360
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<210> 28363

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G12

<400> 28363

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 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggtcgc 180
 ctcgctcgag aagttcctgc aggagcgcat caaggtcgcc ggcggcaagg ctggcaacct 240
 cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ctgacggacc 300
 cttctccaag aggtacctga agtacttgac caagaagtac ttgaagaagc acaacgtgcg 360
 ggattggcta cgcggtggtg ctgccaacaa ggaccgaaac gtctatgagc t 411

<210> 28364

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E8

<400> 28364

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 ggaggcccca gtcgtggttg aggcaccaac ccagttctt ggggagccta tggacttgat 180
 gactgctctg cagctcgtga tgaagaagtc aagtgtcat gacggacttg tgaaggggtct 240

ccgtgaggct gccaaaggcca tcgagaagca cgccgctcag ctttgcggtgc ttgctgagga 300
 ctgtgaccag ccagattacg tcaagctggt gaaggcactc tgcgctgagc acaatgttca 360
 cctggtcact 370

<210> 28365
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E9

<400> 28365

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 gtccattgaa actgatagcc tgagtgagag gttaagttta attaagtttg aaattcagct 180
 gtacaaaaca agagacgaga aatacctcct cgatttgcaa agagtcagtg ggccacagct 240
 cctctttctg gaacttgtgcg cggcctttct aactcaactg agagttcttt gatttctggt 300
 gtcagctttc catcagttgc attccttgcg tttcactaga ggaatgtcta aatcgctcac 360
 aaagctgtaa atagtaatct ccagtagatt ggattttctg gagtatgtag 410

<210> 28366
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F1

<400> 28366

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 tgtccatggc caatgctggg agagatacaa acggatctca gtttttcatc accaccgtga 180
 caacaagctg gttggacggg aagcatgttg tgtttggcaa ggtgttgtct ggaatggatg 240
 ttgtgtacaa ggtggaagct gagggccggc agagcgggca accaaagagc aaggttgtca 300
 tagcagatag cggcgagctg ccgatgtgat gagctgaact gatgttctat ctggaaggat 360
 gttaagaagt tgctggtgac catttgctgt tctggaactt ttat 404

<210> 28367
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F10

<400> 28367

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agttttgtga ttgatttggg aggttggaga tgattgtagt agagatgccca ttgtttgtgg 180
agtaacctac aggatattgt tacaattgtt gacatactat agatgtgcag ataattcttt 240
caagagt 247
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<210> 28368
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F11

<400> 28368

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ctacggtcaa tacgctgcat ccatacactc ttacaccatg cgccacatga tctatgatga 180
ctgctcatac aactgaatcc ctgttactaa cgttaactcc aagatcctat ccaatgtaat 240
cgagtactgc aacaagcacg tacatgccgt cgacgtcgcc gtcgtcgctt cgaatgccgg 300
ttccgacgac gtgggtgcct tcttcgtcaa cagtaccgac ggcttcgggtg aggaccttaa 360
gaactgtgat gcggacttag tcaaggtcga acaggccacg ctt 403
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<210> 28369
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F12

<400> 28369

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tcgcggcgcc tggctctggc agcggcgctg ctgctgctgg cggcggtggc cgggacggcg 180
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atgggcagcg cggcgctgac ctccgcggcg tgctgcagcg gagtgcgctc gctcaacagc 300
cgcgctcgt ctgccgaaga cgggcaggcc acctgcaact gcctcaagag catgacgggc 360
cggctcggca gcggcgctcag catggccaac gccggcaaca tgcccggcaa gtgcggcgctc 420

<210> 28370
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-F2

<400> 28370

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ctagagatat ggagaagcca caggagcaac cacgcccaga gcctgagacc tggcgtaagc 180
cgggtggagcc tccaaagcta gaggttgcaa cacctcgttt tgggaaagca gcaaccgcgt 240
tggagctcgc ccaggccttc tcaacgtcta tgtctgatac tgcaccacag agccggttga 300
ccagtgcctc cagtccaaga gttcctccta gcccaagggc tagtagggat cagtctggct 360
tttcaaggct cactgacagc aggacgttac actcggggccc tttccagcga aagatanatg 420
gctactgata gctggcacac atattacatg tgccacgat 459

<210> 28371
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F3

<400> 28371

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tcgtgctcgt ggtgaagccc cgtaagccgc aaggctcgacc tagaccaagt gtacatgcaa 120

tacatgctgg tggcctcgcc gacgtcaggc gccagcctgc ttocatcgac cccaggcgcc 180
gactacatct gcatcaacat gacgtggtc ttaaccggcc agaaccctaa caaggctcggc 240
atccggtaca gcacgaccaa gttcgacgtc atgtaccacg gcgtgccgct cgagatggcg 300
gcagtgcccg ggttcgagca gcccacgcac agcaccggcg t 341

<210> 28372
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F4

<400> 28372

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atccagtctc ttgcttgcca ctatggcact gcaatgctca aggctccttt tgctgaccat 180
catgcaccaa tggctgcctt tcctaacatt ggtggccgctc ctcgacacac tgccgtcact 240
gtctggaccg gaccacaaga cgcatttgcg ggccat 276

<210> 28373
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F5

<400> 28373

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaagagaaa aacaaacaag attcaaagat tacatcacia acagagcaat 180
ccaactgaat aaacataaaa gcaagtaaaa atcagcaaaa tgcccaacaa gatccaacgt 240
tcgggacagg gaaaaa 255

<210> 28374
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F6

<400> 28374

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gctggtggcg cgccggcacgg tgggtgctggc ggagcacagc gcggcagcca ccaacgcggg 180
cgctatcgcg cgccagggtcc tcgagcgcct ccccgacggc ggcgccgaca gccacgtctt 240
ctacacgcag gaccgctacg tcttcacgc caagcgcacc gacggcatca ccgcgctctg 300
catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg atattcatgg 360
aaggtttgtc aagacatat 379

<210> 28375

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F7

<400> 28375

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tgcttcctc tcattggac gcggccagct tccatctctc ggtcacctcc ctctacatcc 180
cacggccgct accaccttcc ctctacctca cacggccgcc ggcctctcca aggtctgcac 240
acgcattcag cgacgcattt gctatatca gcaactgtgt cataactcta gtagagaaag 300
gagaagatgc aagcatctag ggcaaggctt ttcaaggagt acaaggaggt acaacgagag 360
aagtcagctg accctgatat ccaattaata tgtgatgatt ccaacata 408

<210> 28376

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F8

<400> 28376

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gcccgatcgtc ggacggttcg ccgccagcca gaaggagttc ttcaggagct tcgccaggtc 120
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ctgtaggatg gtcaacggaa gctagacccg tcgacggcac aagttactgg tgaactgaaa 240
gcagttctgc tgtatgtacg atgcctcaaa catgttgatg ggataatggt gcgccgatcg 300
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<210> 28377
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-F9

<400> 28377

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atcgccacg cgatggcgcg cgccttcgct gcggccgggt gcgccgtcgt ggccacggcg 180
cggtcacgcg gttccatgcg cggctctgac ggcgaaccgc ggttcctgct gctggagctc 240
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cgcatcgacg tgctcgtcaa caacgctggg gttcacctcg tcgcaccact cgccgaggtg 360
cccatggagt ccttcaccca ggttttcgac accaatgtct atggtgc 407

<210> 28378
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G1

<400> 28378

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cagtgcacca ccttcctaga gcatgtcggg tgtttgatga atgctggttg atgaagaaac 120
ttaagatcga caatttttta tttgagattc ccttcgcaac tccaaaagtt tagatttgtt 180
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gcaggagcag tgcagcgtga tgccggcacc ggactcggcc gccgtgctct ccaggccaag 300
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<210> 28379
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G11

<400> 28379

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 gatctgctta tgatcatttg ccccatgtaa ttccatgtgt ttaattagtt gttaactact 360
 taactgagga gctgagaaga agtaatttaa gcaagtgtta cagtgtg 407

<210> 28380
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E7

<400> 28380

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 gaagaacacg tcaacttctg gagttgtgtt ggaggatttt gattctcact tctccaatag 180
 attttatcat agctatctgg ataaccctgt aaacatcaat tcctcgtcaa tagctgcagc 240
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 gcttacttgc aatccttgct tttcgtg 387

<210> 28381
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D12

<400> 28381

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ctcagctggt gttgaatgtt ctacagatgg cgattgggga agctgagagg aacacagacg 180
atctgctgga ccagttgaca gagctcgact atctgctcct tgtgctccac ttgatcacia 240
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cagtaactac cacaggaccg atgttcagaa caccagcggc tgtcttacgg actgtgcttc 360

<210> 28382
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 28382

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ctcgcgacgc tggcgctggc cgtgctcctg gcggcgaccg cgggtggctcc cccggccgcg 180
gtgcgcgcgg cgatgtcgtg ctccaccgtg tacagcacgc tgatgccgtg cctgccgttc 240
gtccagatgg gcgnggccat ggccgcccag ccgtgctgcg gcggcatccg cagcctgctg 300
cagcaggcca acaacacccc cgaccgtcgc gccgtcgcgc tgcccagcac caacgttaac 360
tgcaacacga ttaattaaat gaggcgtncct gtgcgcg 397

<210> 28383
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D3

<400> 28383

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caggattgcg cggcatgtgc gcgcgtaaaag agctccactt cagaagacaa acaagagctg 120

caatcatcat ccagagtcgc tgccgtcaat tcttggcgag attgcattat tcaagaacaa 180

agaaagctgc aattactaca cagtgtgcgt ggagagggaa agttgctaga aaggagctcc 240

gcaagctcaa aatggctgcc cgggaaactg gtgcattgca agctgccaaa aataaacttg 300

agaaacaagt tgaggagctc acgtggcggc tacagttgga gaagcgcgtg cgagctgatc 360

tcgaggaaaac taaatcaciaa gaaaatgc 388

<210> 28384

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D4

<400> 28384

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gcattcatca tccaaagctg tttctgaaaa accttgctca gattgcatga ttaacaaact 180

tagagagctg atattactac acaatgagcg ttgagaggta atgttgctat acaggagctc 240

tgaacgctca aaacgtctga ccgtgtgact tgtccatggc acgctgtcaa cacttaactc 300

gagaaacaag ttgaggagc 319

<210> 28385

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D5

<400> 28385

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gatttgacaa ggctgttagt ttgcacctcg gatctgctta tatccacagg gcaatcgata 120

gttcagcaag tattgagcta tacctatgtc ccgagaagat tagatgagtt ggcgtcttgg 180

cgatcgatgt gggcttttcc cgttggtgtt ccttgcaatt tattttcgaa aaaaaaagaa 240
 acatgttcgc tttaagcttt 260

<210> 28386
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D6

<400> 28386

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 tcagggatac tgtctcttca aaactcagtg aggaaggcaa gcttaagaaa cttggtgatc 180
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 ggtggggtgg ctgcgcgggtt gctctggtca aagagcccat cgtccctcag ttcattctga 360
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 t 421

<210> 28387
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D7

<400> 28387

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 tcctgcaaaa tattataaga tctaagaaag ttctatc 157

<210> 28388
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D8

<400> 28388

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aatacagcct cagcttacct gaggcaattt tcgcacctgt tatgatgttg ttttgctctc 180

agatagggtt atgtagcaca agaaagatat gttggagacg ttgacgattt tgtatgcaac 240

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<210> 28389

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D9

<400> 28389

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ctggagctga aggtggcact cctccggagg ctctctcaca tgtacgggtg gtagcctgtg 180

ccgccggtca cccacgccat tgctgccac cccccacc aaagtagtag cccctatata 240

tgcgattggt tattggtcac atatggtcat atggacgtgc gtgtgtgtgt gtgtgtctag 300

ctagtagtta agatctggct ggaagaaaag ccagcccccg gcccgttgct ccagctctga 360

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<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E1

<400> 28390

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tcgcaaata ctgacttctt gaccaagtat gcctacaagt gatgaaagaa gtggagcgct 120

acttgtaaat tgtttatgtt gcatagatga ggtgcctacg ggaaaaaaaa agctttaata 180

gtatttttta ttctattttt gtaaattgca tttctgttct ttttctgtc attaatatt 240

tatatttttag ttcaaaaaaa aaaaacctga atggtagaat gggacgcaac actgaaaagg 300
aacataaagc acagaagatg taaaggatac gcacaagagt gaccgataaa aaaaaggggg 360
ggccttttta aa 372

<210> 28391
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-022-Q1-K1-E10
<400> 28391

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ctgcgcgaca cacgcttggg ctgctcaacc gtggccgcct cccgtagaga ggaacgagga 240
atctatctgt aagatttggg tctggtgctg gccgatgaat ggctaaattt gtctgttcta 300
gtataagcta ctatcaatat actgtacact tgctaattaa aagaaagaag ttttatg 357

<210> 28392
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-022-Q1-K1-E11
<400> 28392

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agaacgccag gttcaggatc gttttcatcc atggcttctc ctccaccaag gagagcgggt 120
tccccgtgtc ccaggagctt gtggagcagc tgggcatata catgctcttc ttcgacagag 180
ccgggtacgg cgacagcgac gccaaaccga agcgtgcct caagagcgac gccacggacg 240
tcgaggagct cgccgacgcg ctgcagctcg gggacagggt ctacgtggta ggggtgctccg 300
tgggcgggta cccagcatgg agctgcctca aatacattcc caacaggctg gccggagtg 360
cactgcccgc gccggcgggtg aactactggt 390

<210> 28393
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-E12

 <400> 28393

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 tgtgggaaca aaattcatca agcttgatgc tgaaaatgct ccattctttg tagccaaact 120
 ggcaatcaaa accttgccat gtgtaatat gttcaagtaa gtgtacaagt tattcattac 180
 tctacctat ttgacaatgt tttttgctgt ttggtaccct gcaatcttcc tacttcacca 240
 tactatcatc cctgtcctat ttcaggaagg gtattgctgt tgaccgggta gttgggtttc 300
 aagatctcgg aagtaaagac gatttttcaa caagagcgtt ggaaaacatt ctcaagatga 360
 aagggataat cgatgagaag aagaaagatg acgacgatga tgatgaagaa ag 412

<210> 28394
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-E2

 <400> 28394

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 tcttcttcag ttctttgaga ggaggagaga acccaagaat ataatggagg ggaagaagag 120
 cagcctcgcc tgctgctgcc tgctcatgtt cctgctgctg tcagcgcagc agcagcaggt 180
 ggcgggctg tccaagttct gccgctgcta ccggaactgc tacaccgact gcaggaagtc 240
 cacgggccgc taccctgca acgccaactg ctttcaggac tgcataacg ggatgctgcc 300
 gccggctccg ggggaggtcg tcgtccccgc cgactgccgc gacatctgcc tcatgggctt 360
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<210> 28395
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E3

<400> 28395

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cgtcgccaag aaggactaca cctacgaagc ggagagcaag gacgacaccg tcacgctcga 120
caccaccgtc gtcacctcca ccatccaggc caccgtcagg gacgacgacc cgctcgccgt 180
ctacgcttgc tccaagttcc tgcagcctaa ggagctgttc aaggccaaga ccgctgatct 240
cgcgcttgcg ccgggtccgc aaggggccaa gaagaagagc aagaagaagc ccaccggcac 300
ctcggcgggc ttcgcgcctt cggacgatga atctgcagat ggcccgtctg ccgacgacga 360
ctcgtncgat gatg 374

<210> 28396

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E4

<400> 28396

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actaaaggca caagccgaca tatggcggtt cagcctctcc tacctcacgc ccctgtcact 120
gaggtgcgcc gtggagcttg gcatccctac ggcgatctac cgccatggcg gggctgcctc 180
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgt tctccgccg 240
cctgctgcgg ctctctgccg cgtcgggctt gttcacgcgc gacaagcaga gtcggaaga 300
agagcggtag cgcacgagcc ccgtgtccta cctcctggtg gacggcatcc ctcacgagga 360
ccacatgaac caca 374

<210> 28397

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E6

<400> 28397

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gtcgcggcgg cggtcctggc agcggcgctg ctgctgctgg cggcgggggc cgggacggcg 120
tcggcggcgg tgagctgcgg cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg 180
atgggcagcg cggcgctgcc ctccgcggcg tgctgcagcg gggcgcgctc gctcaacagc 240
cgcgctcgt cgggcggcga cgggcaggcc acctgcaact gcctcaagag catgacgggc 300
cggctcggcg gcggcgctcag catggccaac gccgncaaca tccccggcaa gtgcggcgctc 360
tccgtcggcg tgcccatcag ccccacgctc gactgcacca agatcaactg atcg 414

<210> 28398
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D10

<400> 28398
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gacacgtagt tcgctgggtgt ctgattgaat ctgggtctgc tctagtcgat ttggctcccta 120
gtagtatgta acaggagaag ataagagttt gttggatgtg cttgaaagct tcgtcctgtt 180
ctcgcttccc caaccattct agagtcagaa ttccatgtca ttcaagctga tcttctcatt 240
catcgttttg ctgcatagtg cgtcttggtc caattgtctt catttaggtt ctagtttgag 300
aaccctatatt tttcaatgga tttttatttt tacaaaaaag aaa 343

<210> 28399
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-B12

<400> 28399
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gagcccgcgg cgtcggccgc cgcgtccgcc gcggcggggc tgtccgcggc cgtcgcggcg 120
caggtgggtgt ggacccccgt agacgtcatc agccagcggc tcatgggtcca gaccccgac 180
gcctgccgct accgcggcgg cgcggacgcc ttccggaaga tcctcctcgc ggacggcgctc 240

cgcgggcctgt accgcggggtt tggcctgtcc atcctcacct acgcgccgtc gaacgcggtg 300
 tgggtgggtcca cctacgccgt ggcgagcggtg tgcctgtggc gcgccgtggg gaccgagcgc 360
 tccgagagct gcgcctgcct gatggctgtg canggcgcga gcgcg 405

<210> 28400
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-B2

<400> 28400

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 tcgtcgccaa aaccctactg ctgcttgtat gccatggcga gcagtgttag ccaggcgagc 120
 ctctgtctcc agaagcagct caaggatctt gcgaagaacc ccgcggatgg gttacacgnc 180
 aggcttgtaa accacagcta catcttcgag tggcagggtta ccatcatcgg accgtctgac 240
 accctatatg atggaagcta cttcaatgca ataatgacct tggggccagaa ctatcccaac 300
 agcccgccat cagtcagatg cacttctgag atgtggca 338

<210> 28401
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B4

<400> 28401

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 aggaaaccag ctgtgagggtt atcaggaact tgtatgggtt caatttggtt gtgggttttta 120
 acacatggca gatcgatcat cctttgcctc aaatgaagta cacatattgc tagtagctcg 180
 ccttctgcat gctttgggat atgtatgctt caata 215

<210> 28402
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B5

<400> 28402

gagacgccga cgcggcgccc gagaagaatt tgcggatgga ttcgctgcgc agcgtgttgg 60
agtcgattca ggcgatgcag atccgccccg tggtcgcccc aatcatcacc ctagggatga 120
tcctaacttc ggcattgata ctatggaaag gattggctgt cgtaacaggg agtgagtcgc 180
cggttgtggt ggttctatct ggaagcatgg agcctggggt tcgaaaggg gatgtcctgt 240
ttctgcacat gaataaggac cctgtccgca caggagacat agttgttttc aatgtcgagg 300
gccgtgatat tccaattgtc catcgtgtga tcaaagttca tgagcgccat gatacgggtg 360
actctgacat tcttacgaaa ggtga 385

<210> 28403

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B6

<400> 28403

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atggccgccg cgggggcaga cggggagcgc aggatcgggg tggccatcga ctactcgag 120
agcgccaaga aggcgctgga ctgggccatc gacaacctgc tccaccacgg ggacaccctc 180
gtcgtcgtcc acgtcctgca ccacggcgcg gaggagacca agcacacgct ctgggccaag 240
tccggatccc cgctgatccc actctccgag ttccggggagc ccgaggtgat gcagggttac 300
ggcgtgcgcc ccgacgccga ggtgctcgac gcgatcgaca cggcagcgcg ccagaagcaa 360
ctgaaagtgg tggcgaaact gtactggggc 390

<210> 28404

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B7

<400> 28404

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caccgccgatg gcgccgggtc gctgccagca cgccggccta accagccgac ggaggaattc 120

aggaatgtgg tgtttggggg gcagctcacg gagggggccg acggcctcaa caagacgaag 180
 aggaagacgg gtcctcgcc caaggggaag gagacaacag ggaccgggat atccaaggcc 240
 gagagcgccg tcgcaactgc ctcccgatg cgtcaggcta gccagatcac cttttcccag 300
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 cttagccata ccgtcgagag tgagggggac aagtagat 398

<210> 28405
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B8

<400> 28405

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 tttattacta gtataatgct agtgtccgc cattgcttaa tctggaatgc taccagccag 120
 atctccatgc tctctgtga gccactcggc agagtgagga ttactagga gggtggtcatg 180
 tcatgtgtc caccctccac tggtagcagt caatcaacta aagctacccc cggattgatg 240
 aggaacatcc cgcgcgatta gtggggcatg tcatt 275

<210> 28406
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-C1

<400> 28406

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 cgtgcccgtc cgcgcgtacg agcgcgcac cgagctcacc ttcccggacc gcccctatgtg 120
 ggtctacggc tccatctggg acgcctnaga ctggggcacc gacgacggcc gncaccgcgc 180
 cgactaccgc taccagccct tcgtcgcgc cctcgaccgc ttcgtcgtcg ccggtgtgtc 240
 cgnnacgcgc cccgccgcgt gcaggccgt gccggcgctc cccgcggggg ccggggtcac 300
 gccgcggcag tacgcgggca tgcgtgggc gcagcanggc cacatggtct actactact 359

<210> 28407
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C10

 <400> 28407

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 gtacgcaacc ctgcgcgaga gcagcccccg taaaatcttc ctctgcatcc tattcgctat 120
 tgcggtggc atcgccggtg gcgttcgtgt gcttctcggt acggtgaaac ctttattgcc 180
 gttcctgccg cactttcctc atttcttgag actttggccg ttggacggtg gactctgcgg 240
 gatccccaat ctctgctga gcttcgcac agagggcggg catggctgga aggcatacca 300
 tcattctcat gcaaccatca cagaacagat cgacgaggac atttatggac tacgattcag 360
 ttaaccactc gctggatgga atatgtggtc ttacgaaag gaaaatcag 409

<210> 28408
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C11

 <400> 28408

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 tgcattgcag gcgtagtacg taccagcag cagctagcac tagcagtcca tcggagcgac 120
 gatggtgaga aggacggtgc tggcggcgct gctggtggcc gccgccctcg ccggcggcgc 180
 gcgggcgcag ctcaaggagg ggttctacga ctactcctgc ccacaggcgg agaagatcgt 240
 caaggactac gtgaaggcgc acatccccc cgcgcccgac gtcgcctcca ccctgctccg 300
 caccacttc cagactgct tcgtcagggg ctgcgacgcg tcagtgtgc tcaacgcgac 360
 gggcggcagc gagggcgaga aggacgcggc gcccaacctg acgctgcgcg gcttc 415

<210> 28409
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C2

<400> 28409

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atagtgtttc ttctgtttga tactttgttg cctttttctg tctgaatgta tattttgacc 120
attgattatg caattatttt atgtc 145

<210> 28410

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-C3

<400> 28410

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tcgggcctct tcgtgggcat caacaagggc catgtcgtca ccaagcgca gctgcctctg 120
cgcccgctcc accgcaaggg gaaagcaacg aagaggggtg ccatggtcag gggccttctc 180
agagagggtg ctggctttgc tccttatgag aagcgtatca ccgagcttct gaaggttggc 240
aaggacaagc gcgctctgaa gcttgccaag agaaagcttg gaactcacia gagggcaaag 300
aagaagagag aggagatgat gggcgtntc aggaagatga gatcggctgg tacgcacact 360
gacaagaaga aataaagcat ttcaagttca tgaatgtggc agccagagat ta 412

<210> 28411

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C4

<400> 28411

aaaaaaaaa aacaaaaaca aaaaaatta aaaaaaaaaa ataaaaaaaa aaaaaaaaag 60
agaaaagggc aaaaacgtga ggaaatcaaa tcaaaataaa cacatacctc cgaaattggt 120
tcaccgttat catgcacca aattttaatc cctttgcttt ccacttgata gacctttct 180
tgggaaacct aaattcattc tccagttcca atagtttaca aaaatattcc tctttaaaac 240
cctggcctaa tccactttaa tcccc 265

<210> 28412
 <211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C5

 <400> 28412

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 cctgggcggtt cgccggtacg agcgccggac cgagctcacc ttaaccgacc gccccatgtg 120
 ggtctacggc tccatctggg acacctacga ctgggggcacc gactactgac gggccccgatc 180
 cgac 184

<210> 28413
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C6

 <400> 28413

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 atccatagca agaggaagcg gctgaggttg gctcgggtga gcaacatggc ggagaagctg 180
 acgccggagc aggtggacga gtgcaaggaa atcttcgacc tgttcgacgc cgacgaggac 240
 ggtcgcacgc ccacgggcga gctcgtgacg gcgctgcgct ccctggggcca gaacgtggac 300
 gaggcggaag cgcggcgctt cctggaagac gcgggcatcg cggcggggcg cggcgaca 358

<210> 28414
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-D1

 <400> 28414

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 agctcggctc catgaaaaag gtaacggagg acctgagcta cgtggtgatg ctccgccgca 120

agttcgggta cctcgagagc atccccgggg tgctgctccc gcacccgtcg tcggcggggc 180
 tgttcgcggc cgggtgggtgc gtggggcccc cgccggacat cgccgcggcg tggtcgtcgg 240
 gcctgatgcc 250

<210> 28415
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-B11
 <400> 28415

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 aggtagggat gcataccaag tctgaggatg atgcctttgc ttaaggtttt tctaccttgc 180
 tagaacatat ctgtggttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240
 aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300
 gaattgtgta tgacttgtga tgagaatgtt gtgtatgatg gcttttctgt gtatt 355

<210> 28416
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-021-Q1-K1-G10
 <400> 28416

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 cagcatgtcc taatctcttt gccattgtg ccgcagatca agttctggat gttaccaagt 120
 tacggaagat acaaaattct tccgctgagc atattgctct gcgttattca acggccaaag 180
 gaaaatgact atttctataa ctgcggttta aatattaaca gccaaagggtg ggaaaaagca 240
 gcatttgtga aaagcttcaa gcagccttgt tcttgcagta gttctccagc cactccatgg 300
 taacactctt cggcctctca agtggcatgc caagggcacg gtcccagatg agctgagatc 360
 ctatccccat gctttttgaa acaccgaaca agacagtg 398

<210> 28417
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-G12

 <400> 28417

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 ttatgagagg ctgatcgatt ggtagatacy tactcgggtg gagcagagca acgagagaca 120
 tggcgacgac gacgcgtggt gccgncgtcg tcaccggcgt gctgctggtc ctgtcggcgt 180
 tggcgaacct tgcacgggcc gaggaccctg acctgggtctt cgaatggaaa gttacctacc 240
 ggaacaaggt cctgggttggc cttccccaaa aggtcattct tattaaccgc taatttcccg 300
 gtcccaggat taaatggttc ttcaacaaca ac 332

<210> 28418
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-G9

 <400> 28418

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 gtcgagtgcc gtgacctcaa gcccgagaac gtgctccttc gcgcgcgacgg ccacgtcacg 120
 ctcaccgact tcgacctgtc ccgccttctc caccacagca tgctgtccgc ggagtcgtcg 180
 tcgccccgcg ggacagcgtc gtcccgcggt caccacaacc gtcggtcgcg cgttctcgcg 240
 cgagcgact c 251

<210> 28419
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-021-Q1-K1-H10

 <400> 28419

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agatgataaa acgtgacctc ggtcgaattg agaaatgggt tatccgtaat gcatttgatg 120
 atgaggagag gccctattta cctaagcaca ttctctacag gcaaaaggaa cagttcagt 180
 atggtgttgg gtatagttgg atcgatggat tgaaggacca tgccagccaa catgtctccg 240
 attccatgat gatgaatgct ggctttgttt acccagagaa cacaccaca aaaaagaag 300
 ggtactacta cagaatgata ttcgagaaat tctttcccaa gcctgcagca aggtcaactg 360
 ttcctggaag tctagtgtg gcctgcagca ctgccaaagc tgttgaatgg gatgca 416

<210> 28420
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-H11

<400> 28420
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 aacagtctca tgtctactcc tgctgtatct gctgtcatcc gtgaaagaat cgggtgcagat 120
 ggatcaaagg ctactggtgc cttcatcttg acagcgagcc ataaccagg tggcctacg 180
 gaagactttg gtatcaaata caatatggga aatggtggac ctgcccctga attttttacc 240
 gacaagattg tctctaatac aacgacaatc tctgaatacc tcatctctga aaacctttca 300
 gatgttgaat tatcatgtgt cgggtgcacc agct 334

<210> 28421
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-H12

<400> 28421
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 gccgtctaca caccaaaagt tgcgcccag gccaactcaa tctccgttga ggttgcggct 180
 gatgaacagg tagctgagaa ggtggtggtg gaggagccgg ctgcggcggc cgacgttgag 240
 catcagaagg ctaatgaggt gctcgctcca gaggcggacg tcgccgagcc cgaccacaag 300

gaggacgaag ccgtggagaa gaccgtcgtc gaggaggaaa agccagcggc agcagcccat 360
gcagagggaaa aggtcgccac cgcgcggcgag accacgacga ctgtggaggc gaataaaacg 420

<210> 28422
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A1

<400> 28422

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tgtttcatca gtggataaga agctggaggt taaaccacgt tttttagaaa tttttcaaga 180
agacaactac cctacagagt tcccttacia gtccaaggct gttctcttgt tccagaaaat 240
agaagggtgtg gaagtatgtc tatttggaat gtatgttcaa gaatttg 287

<210> 28423
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-022-Q1-K1-A11

<400> 28423

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gtcggtggcg ggcgcgtcgc ctgctgcgcg gtacaacacc gacagcccag atgggaattg 120
cttcgacaaa aatcgctggg ggcatgggtt tgggcatctn cttgcccacaa accatctccc 180
gatcaatgga ggagattgtg gaggcaccaa gaattcgcca gtacaagaaa ttgattcca 240
gtacagccag caagactcca tctcgtggtc cttttccgct acctccaccg cccaagtctg 300
ctcctggcaa gctagtggac tctaaagccc tagaacatct tgatgcacca gttatggcgg 360
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t 421

<210> 28424

<211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A2

 <400> 28424

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 gaaggggtgt ggactggtgg tgctagcggg ggtggtggtg gtggtggtgg aggatcccct 180
 ctcacgtcaa gcgctgtgtg gaaagcataa aggcgggagg aggaggagag ggcgaaggcg 240
 catagctttc ccgacgcaca aagcgaaaag gcttcataaa gaagaaagct tccgtcttgg 300
 gagggagagc gaggcctcct gcgtgtgagc gtgcgataaa tagcggctcc agg 353

<210> 28425
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A3

 <400> 28425

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 ctctctatac tcttgtacgt acgcacgtgt cgcaaccgca atggagtgcg agaccgggct 180
 tgtgcgctcc ctgaacagcg agggcctgtg catgtcggca gcggcggcgg cgccacgcgc 240
 cgacgccctg aactggcgca aggccgcaga ggacctgtac gggagccacc tgtacgaggt 300
 gaagcggatg gtggtggagt tccgcgagcc gctggtgagg atccagggcg ccagcctgag 360
 catctggcaa gt 372

<210> 28426
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-A4

 <400> 28426

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 cgagcccgcc ccttctgcgc cttgcccagg tctctgtgtg ttttttatag gcttgagagc 180
 ttggaatagc ggggggtgga ggaagcggaa gaggagcttc gttttgtgtt ctagagggag 240
 tcatgttcca tggcggcagg cctctgtccc tccgggggtc tctcaaggcg cttgaagctg 300
 atatccacca tgccaacacc ctggcgcatt ctatacacag ggcgtatggg ggtgcctgcg 360
 tgc 363

<210> 28427
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-A6
 <400> 28427

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 caccatcggt atagacgacg cttccctgtt ggaagtctgt gcccttggtt ctgtaagcga 180
 tgtgctggat ttcttgcaat attgtttcac actcacgtct gagatgaatt gcaagctagt 240
 gatcctcatt cagcaggata tatacgcaaa tgaggagAAC atgggtctcc ttttacatct 300
 gcgctacatt gcggatcttg tgattaaagc agcaccttta agcactgggt tggctgctga 360
 tgttcatgga cagctggcgg ttgtgaacaa gggtagattc agcgagcaaa gggcaaaagc 420
 acagaaagtt tggaacttcc atttaaagtg gaagaaaac 459

<210> 28428
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-022-Q1-K1-A7
 <400> 28428

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 aagcagcagg agctcccttg accctgtctc gcctccgata aaggaaaagg aagatgagct 120

actacggcca gcagccccc gtcggcgctc cgcgcagca aggctaccgc gggaaggacg 180
gctaccgcgc agcgggggtac ccgcggccgc gctacccccc gccggcgcat ggctaccac 240
cgcagggcta cccgcagcag ggctaccgc cgcagtagc gcagccgtct ncacagcagc 300
agcagagcag cgggccttcc ttcattggaag gatgcttgge tgcctctgc tgctgctgcc 360
tcctgga 367

<210> 28429
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A9

<400> 28429
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tactgtagag aagagaacgg ttttggcct tgaggcgccc cctgtactgg tggtgacgct 120
gtagaactgt tacttaagtt gcttgggatg atcgctgctg tccttagatt atcttaagac 180
tagtaatctg agcttagttt acgctcatgc tgaacatgta tcacggcttc agcttaatta 240
ccatcggtgg aaagaccagt ggagcggcga acgcacaagc ggaccggc 288

<210> 28430
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B1

<400> 28430
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cattttgtga ggttaattat agagaaagg tagaaattat atgaagaaac atagtaaaaa 180
atcattgtta ggaacaaact ccaatagcag gctctacttg tacgtcgag acataagctg 240
agactgagct gcgattgcaa cagattatac tcttctatca tggtgactga agttccctca 300
g 301

<210> 28431
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-F9

<400> 28431

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gcctgttctg ccaaggctgt tgggtcaagtt cttcctgata tgaatggcaa gctcactggc 120
atgtccttcc gtgttcttac tgtggatgtc tcgggtgttg acctcaccgt cagaatcgag 180
aagggggcct cctatgagga tatcaagaaa gctattaagg ctgcttccga ggtccactc 240
aagggatatca tgggttatgt ggaagaggat ctgggttcta ccgacttctt tggtgacagc 300
atgtcgagca tcttcgacgc caaggccggg atcgctctga acgaccactt cgtcaagctc 360
gtctcgtggc acgacaacga gtggggctac agcaaccgc 399

<210> 28432
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B10

<400> 28432

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gcgataagag tggagctcct gctgagttcc agccatcatt caggaggcct ggctttgggc 120
gtgggtggcg cagcggcttc ggcgcgggcc caacctcttc ttccatggag tgaagttgcc 180
cttgggttgg acatggtgtt tcccttcgca tgtggccttt agttttgaag gacagttatt 240
atgtactagt aatgttactc ggatcggcca gtgctgacat atgcaaaaaa atgttcttgc 300
cgttatacat tggttccagt attattgtct t 331

<210> 28433
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A11

<400> 28433

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cgcggtttct ttgcatttgc atggcttcgc gcttcgctct gggagcttgc actagccggt 120
ccgcggccta tgcgcggggc atctttcgag tgcgtgcgta tctgttcaag ctctgatcgg 180
ctcttcggcc cattcgtctg aagaaactga ccgtcggctt attgctcttg ctctttaacc 240
taatccccggg gctgagaagg gaagagaaga aggcacgtcc acaccttaaa g 291

<210> 28434
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A12

<400> 28434

aaaaaaaaa aaaaaaaaaa aaaaaaaatt taaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
gagaaaatth taaaagatca aaagctcaca ccaaaataaa atacaaaaaa aatacctgtg 120
ctatagtttc actgaatcga agttcattgc cccgagtttc ccaactcttt ctactggaaa 180
aaccctgact caaccaaatt caatggcctt gcattacatt cctacatcct cggataccct 240
agtagcgacc aggccttaac agttcgccct atatgacctt tt 282

<210> 28435
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B10

<400> 28435

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catggctatg gctcgtccg tcgcgcacct cttctttccc atcctcctta tctccaccgc 120
gcccgccgtg cgggccatca ccgacgcgcg cggcggcccc ggatacctcc aggaggcgtg 180
caacaagacg ctgttcccca aggtgtgcat gcacgcgctc aaggacaacc cagagtgcc 240
ggcggagacg gcggtcacc cgcgccggct ggccgagctg ctcgtgtacg tgtcggccga 300
ggtgggcatg accgtggccg cgttcgcgca ccacgagctc aacgccatca aggacgacga 360
cgtcctgtac aagtgcacg acacctgctc cg 392

<210> 28436
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B12

<400> 28436

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cttcgtcccc cagcgacgca ggcaggcgcg cgcgcggcca tgaagggggg cggtgccatg 120
aggccgtcgc ctatgttcta cgtccacgag gcggacgtcg tccagatcca ccacttctc 180
gaggagtget ccctctgcgc caaatcgctc tccggcgaca tcttcatgta caggggtgac 240
acgccgttct gcagcgagga gtgcaggag cagcagatcg aggtggacag ggcgaagcac 300
cggcggaaga agcgcgcggc ggcgcacgcg ctgtccgcac gcagcagga gcaccggcac 360
cagcagcagc tgcagcagca ccaccaccag cagcagcaac cgcagccgct gaatgcccgc 420
atggacaccc gc 432
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<210> 28437
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C10

<400> 28437

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atccatatat caacttacac agagaagttc agtacgaaag cgaaagagac aataaacatc 120
aaagtgaat caggagacat atgcatgtac atatacataa atataaaaga acaattttac 180
ggcgtctcga tgtgttttac catgcatata tccgcatgca tgcattgcag cggaccatcg 240
cctcttaatc tccctggtcg cccgcccctg gcagtgagtg actgctggtg cccacatgaa 300
tgaagtcttc ttgagataga gcagagcccc tttggttgat tattattcct cggaagcgga 360
aatgaaccgg acgacgggac gagagaac 388
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<210> 28438
 <211> 342

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C11

<400> 28438

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 acctgtgcac caggactgca gggaagcacg ccaacaagta caaggtggtg gactcggaga 180
 ctgtgctaga gatgcaagtc gactcgttca agaagcgctg gaaagcagcg cggatgctcg 240
 tcaaggagga agtcaagact gccgcgactc ccgaagcgcg taaggcgctg aaccttttca 300
 agacctaacta cctggactcc gccgacaacc tcggcgctg ca 342

<210> 28439
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C9

<400> 28439

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 aaaagcgccc ctggcatgca tgtctaccca aagctatoca tactttattc ttgacaa 117

<210> 28440
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D10

<400> 28440

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 tcatcgctccg gtgcgggtcaa tgtaattaac taagcttctc aatcatacat agcttggcaa 120
 atgcctgagg gctagctaga caaggtccgt tgagctagcc cctttgggaa gaagggagag 180
 gaatggcgct ggtggcccgt tgagcgagga agaggctatt gagaaccctg taacaagaat 240
 tgccagcagc atctggacaa tcttgtaaac agagttccaa aggttcaatt ccaagcggat 300
 acaatttccg agttggatcg agaagagtgc gtgcatacgt ccgtccacgt tcgtggttcg 360

tataagctag gtttcatcaa ccatgggcac

390

<210> 28441

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D11

<400> 28441

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tccttttoga ggcctcaccg gctgctctgg ccgacttoga tgtgatagag atgctggccg 120

acaagcccac gtactccacg ttcctgaagc tcctgcagga caccaaggac gcgggagagg 180

cgaatcagct ccggctggcg acgctactgg tcgttccga caaacttgcc aagcctctgg 240

cgctcgctgcc cgccgataag gtgcggccgg ccgtggagaa ccacgtcctt ctcagttact 300

tcgaccccat caagctggac gagatgaaaa caccgaccga catcctaccc aactgctct 360

tcgtcaccga caagaaac 378

<210> 28442

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D12

<400> 28442

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<210> 28443

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E10

<400> 28443

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gagtcaggtc tgtatcttgt gtcaacgcca attgggaacc ttgaagatat caccttaagg 180
gcactgcgtg tcttaaaatg tgctaattgtg atactatctg aagacacaag gcattcagga 240
aagctacttc agcattacaa catcaagaca cctcttctta gcttccataa gttcaacgaa 300
cgggagagag agcccactat ctttaaggagg cttcatgaag gtgaagcagt tgcactgata 360
agtgatgctg ggacgccagg tattagtac cctggcatgg aactggctag actatgtgca 420
actgagaaaa 430

<210> 28444

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E11

<400> 28444

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cgtctccgcc gcggccagtg cgcggaccgt gggcgacacc gtgcatgacg cgtgcagcaa 180
gaccagttc cccaagatct gcgtggacag cctcgccgcc aagccggaga gccagaatgc 240
gacgccgcgc aagctggcag agctgttcgt gaacatcgcg gccgagaagg gatccgggat 300
ggccaccttc gtgcaccgca agtacagcga caaggaagac agcgacatat tcaagtgcta 360
cgacagctgc t 371

<210> 28445

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E12

<400> 28445

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agctgaggcc accatctcca cacccaagg tgcacctgag accactgcca tccacattga 180
ggttgcgggc aaacaggcag tagttgagaa ggtggaggag gacaaggagg aggcactaac 240

agtggcggcg aaacaagagc cagcagccac catcgagcct caacagattg ctggtgaggt 300
gaccacttcg gaagtggcgg tcgtcgttgt cgagcctgag aacaaagagg aggaggaagt 360
tgtggagaag accgtcatcg agaaggagaa gccatcagca gtccatgaag 410

<210> 28446
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-021-Q1-K1-E9
<400> 28446

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ccacgcgtag ctgccgcctc cctccccggt cctcgggtcc gccgcgcgcg cgccggccgt 180
caccaccgca cgacgccgac caccacaatt agctagcagc ggcgtcgact aataaacgac 240
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ggtgcaggag gtgttccagc acctgaaatg caacaaggaa gggctctcca gcgccgaggg 360
agacaatctg ctcaagatct tcgggccc aaagc 395

<210> 28447
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-021-Q1-K1-F10
<400> 28447

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cctgggtcgt gcgctggtgg gcactgggtg cgaaggcatc ggccagattt ggggaaattc 180
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ttcgaccgcc attgagcgcg aggacacgtg tcatccgaaa agcaagttgg tacctggaat 300
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<210> 28448
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-F11

<400> 28448

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 tcctncgctc cgacggccac gtcacgtca ccgacttga cctgtcccgc ctacttcacc 180
 ccagcaggtc gtacgcggag tcgtcgtcgc cccgcgggccc agcgtcgtcc cgctgccacc 240
 acaaccgacg gtgcgcgctc cccgcgcgga gcgactcggg tctcagccag cacgtcaagt 300
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<210> 28449
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-021-Q1-K1-F12

<400> 28449

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 ctggctggcc gcagcaccgg tgggtgtggtg gaggatggca ttgaaatacg tggccagggt 180
 accgtctcca tgggtgggcgc cacaacgtcg tttggctggt tcatggggtt ccgtctgctc 240
 ggtaaaatgc ggcgcattgg gaggacggga tggtgtgtgc gccgctgtta gcttcagacc 300
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 atccaatgat ggcattggaac tngtgacaaa ctttgaa 397

<210> 28450
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-021-Q1-K1-A10

<400> 28450

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ctttttatat gtgggtggcg tttcgtggat ttggagaaaa ctatatcgga gagacggcag 180
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agtgtcaag tgacatcgtc cttgttgaa tcggttgaga gtggtgatct aatagctnat 300
ggactttatc cagaatttat tggacgtttc cctatcct 338

<210> 28451

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H7

<400> 28451

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ggctcgcgcc tcgtatccgt aacagctaca ccgtgccgcc taccctcgct tcctgctggc 180
tgcatcgtec tcaggtcttc cgaaggcgag ctccaatccc caaccactat tcacaagatg 240
actacaaaac ttgagcaatc ttctgcggag catcgctccag caaaattcgc agcaccatcg 300
tctttgacct ccaagatctc aatgtttggg gcaaaagctg gattcatcat acctaagaac 360
aagctggccg gctcactcgt aatcctgagc accagtgaca agaatgaaac accaactgca 420
tccaacgaag atagcagcaa gcatgttcac ag 452

<210> 28452

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H8

<400> 28452

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gctgctgaga atcaggacgt aacccgacac tcgtccgcgc ccagcagcct gtgggggtga 120
 agtgctctgt gcttgcaggc gcctgcaacc tctgcaacgg tggcatccgc ttcgtccggg 180
 agcagcaccc caacaggtat tgtatagccg cgttgctcaa ttttcagtca aatcacatgc 240
 cgctgcagat tgagtctagg agggagctcc tgctcccgac ggatgaagac agcattcacg 300
 ccggaggtct gcgtcagcca cccagcgcc tcgatggcgg cgccccgctc cgcgagctgc 360
 ttgttccgct tcggcttccc cacgaactgc atccccctga actccaccac ggacctgaac 420
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<210> 28453
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H9

<400> 28453

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 tgactgcatg gccgcctcga ccaagaccgt cgccggggcta ctcaccgcgg ggctcctcag 120
 cgctggtcgc gtgcgaggca tgccagcgtg aagctggagg aggacacact tctgggaagc 180
 ctggccccag cccccgcgcc ggccgtcggc ggtgccgcgg ggctgcccggt cggcaagcca 240
 ggggcgtgcg ccgacgacga tctggtcgat atgagcgact taatcgggat gtgatggcct 300
 cgggatcgag ctgcgcattg cgggagatgg agaggcgaca agctgcgacg tggcatccat 360
 gagagagagg agagggggat a 381

<210> 28454
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A10

<400> 28454

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 gcatttgcatt tccatctgtc ttactgaggg taattaccgg ttgtggttca gaatgttcag 180

ggaacgcaaa a 191

<210> 28455
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A11

<400> 28455

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cgtggagctg caaagtccgt tggaattatc ttgtagcagt ttctcggcaa gatgagtcgc 120
ttcattcact gtacgtcggg gccggctact ctgaaactta catactataa gaatctgggc 180
ccttact 187

<210> 28456
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A12

<400> 28456

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atctgtctac aactactaac aagcaatcat ctttctcatg catcaatatt cagcttaaaa 120
catttaaa 128

<210> 28457
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A9

<400> 28457

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ttcggtaagg gggctcttct cccctttccc accgaagttc ccccttcttt catcgatatc 120
tttttttcct gtcaccggcc ggcacagggt tccgttttcc ttgctccggc cggctgtaaa 180
agcttttcggg cctcttaggt gcctcaaatc cggtggtgct cggctctttg gtctgaatc 240

cagtgggaag ggaaagggtc gcttcagtgt tgggtgactc cgagacatgc ctgtgctcta 300
cgcttaccga gattaccggt gc 322

<210> 28458
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B10

<400> 28458

gtcgaccac ccctccgctt gcagaatcgc ttgaaaaaaa tataaatgct gtagctatta 60
ttcg 64

<210> 28459
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B12

<400> 28459

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gcatgaactc accaaagggtg ggagctgatg tgtagtgtaa ggctgaacaa caaataatgg 120
ttaaagctga gcattctctt ttaataagtt ggtcaaaaat tattatcact tactaaatgt 180
aagtgtatgc caacccaaag taatagtaaa tcaaaattaa taataaacca taatgtgatg 240
caaatgacaa attaagtttt acttcacaaa ttaattatgt gagtgttcga gctatctagg 300
tggcgtctcc tattcaggtt gatggcgcca atgaataatt attagttctt ttattgggtat 360
ccgttatttt ttttaaactc ttccgctatg taataatt 398

<210> 28460
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B9

<400> 28460

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gaagtggagc tgcaaagtcc gttggaatta tcttgtagca gtttctcggc aagatgagtc 120
gcttcattca ctgtacgtcg gtgccggcta ctctgaaact tacatactat aagaatctgg 180
tcccttact 189

<210> 28461
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C11

<400> 28461

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ctggtggctg accaaagcga gttacgacca actccagctc catcttgatt ctcgatgcct 120
agccccctgtg cttaagaacc tgccatgtcc agctataata ctgtcttagt attctagcaa 180
gtaccacagc acaacgttac ttattactgc tcaatcatta ttggcgatac ggaacatcaa 240
gtaacttcgt aaactgatga gcatcctgac c 271

<210> 28462
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C12

<400> 28462

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acagtaacat gcatcataac tctatatggg tgacacttga aattgttaca cactaagacg 120
cactgaccgt accctgcgct caattgctcg atacttgaag cttgtaggtg aatgtatcca 180
gtaagttgaa gaactggtta tctaattatt tatgtaccgg ggatccacca ttttggatac 240
gcttcatcaa tataaaagag ctccaattat taaagttagg agaaaatgac gatctctaaa 300
ctattcttga gttgtcggcc agctgccaaag actaatggaa ttgca 345

<210> 28463
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-D9

<400> 28463

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ctgagggctg accttgccga gtcccgcgag ccttcagctc catcttgatt cttgaggcga 120
aac 123

<210> 28464

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F10

<400> 28464

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catctaccgc ggccggcatcg tgcccgtaa ctaccaaagg gtgccgtgtg tgaagaaagg 180
cgggtgtgagg ttcattcatca acgggcgcga ctacttcgag ctgggtgtca tctccaacgt 240
gggcgggctgc ggggtccattc agtcggcgtc catcaagggg tcgcgcaccg ggtggatggc 300
catgtcccgg aactggggcg tcaactggca gtccaacgcg taccttaatg gccagagcct 360
gtcgttccaa gtcaccagca acgactggca gacccaaaacc tttcccgacg 410

<210> 28465

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F12

<400> 28465

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ggagatcatt ttcggctaca ggaaacagcc tcagtgaag ccacacgttt tccgaagcgt 120
gtatgttcat tggcccccaa gaaaccgtaa cgggaaaaca ggagaagacc accttgacat 180
catgactttc tacaacgaag tattcattcc tgccgtcaag tccttggttg tcgatgtagg 240
acctgtcacc agtccaaaga acaaagaaga ggaaaaagat cctgctgata tatgtccatt 300

cccagaatct accctgctgg ctcggttgcc gaaccatccc gacatgtttt caaaaaagtt 360
tctgcttccc ataacgagta cgtcttaccg atcggtcatt aaagatggac actt 414

<210> 28466
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-G10

<400> 28466

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tcggctcagg aacaggccta tgctgccaca gtttcgaagc gtctatttca tggccccaaa 120
gccgtacgaa acaggaaaac cacttacata ta 152

<210> 28467
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-G12

<400> 28467

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cccggcgcgg ctgtcgggat gccgtcagg gtggtagata ccgccacgcc tttctcgcag 120
cccttcccag ggcaagaagc aaatactgga caccatctc ctctagatg ttcactctta 180
agtgtggaa gatcttttgc tggaactcag aatgtttcaa gtctgcagaa ggatgaagca 240
tggaagtga atgtccgcat ccatggttgc gatcttgaac aggggtatct atgtggaacg 300
atgtgaagcg ctaatggtcc attag 325

<210> 28468
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H11

<400> 28468

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gcatggccaa catgtccaac atgctatgaa ccttctcaaa attcacatga tgatttgtat 120
 ttgcattcca tctggcttac tgaaggttat taccggttgt ggttcagaag gtacagggaa 180
 gggaaaaata aagcgctcgg ttatagagct tgcggagaat gaacatattg agtggcgcgga 240
 agaagaactc tggaactgta gcccttcgac ttggtggccc aagagagtat cggttccttg 300
 accatgaaag cgtatctaac ctaatgggga actttaac 338

<210> 28469
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-H5

<400> 28469

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 cgacaccaca ccaccctatg ctctctgtcc tcgcccgcag ggtaagattg cagcagcagt 120
 gaatttggga gcttgaagct ttcattccgag acatggaaaa agtgatctgc cgggcatatc 180
 tccttcaatg caagcgattc ttttcgaaaag aaactcttga ttggtgtgtc ttagcccggtg 240
 ggaacaccca tctctcctct ctggtgaact acacatagtg gttatatgct cctctatgct 300
 ccacaacaag caggctgatg cgatattttc ctgaagttat tatattccag tctatgccag 360
 acatctacat gtaactncac caccttggtc ttcctttggt tt 402

<210> 28470
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H12

<400> 28470

caccgtcgcc acctacagca ccgtcgtagt tgcaaattgc cgacttcggc cggcgcggtc 60
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 tctaccccag ggcaatgctc caggaaggac ggcgcggtgt atcaacacag acggggcgcg 180
 cagaagccga tcaagtgctt acatgcaccc atgcgogtca gaccagcgca ggtttcggcc 240
 tcgtgcagac tacc 254

<210> 28471
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-F9

 <400> 28471

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 aatgcctagg tggttagctg tgcacaaata acagttaaac tttgacggct cctatttcaa 120
 ctgctggaga aatgccagtg ccctatTTTT gaccaccagg gtgtggaatg gaaatcggta 180
 atgcgtccat tttgaagggc ctgagatggt taaaagacag aacactaatg aagatcaaca 240
 atatctcaaa ctaaagactt atatccaatt aactactcta gctccatggt cctagtgagc 300
 gtaggtaaaa aagtgcattt actgcataaa ggaca 335

<210> 28472
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-G1

 <400> 28472

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 acccgcttgg tgtgcgttgc tctggaaggt aacagaagtt tgggagtggc ccatcgcaact 120
 cgttctgaag ctcaacaata catcaaccct tccttccgag tggagcaaag ttacatcag 180
 cgcaaacatc agcctgtgcc ctctcctaata cctgtactcc ttcagctcgt tcatccctct 240
 agacacccga atagtgttcc tcctcccgca agtccgcttc cctctatggt ccgtcgtgct 300
 cttcgccagc ctgtgcctag ccctcttcca ctacctnctc gagaaagaag ccccgaaac 360
 agagaccatc gogagcacca ccctctnctt catcatgagc gtcttctgga tctcgaccac 420
 ngcnggagag ctntgagct g 441

<210> 28473
 <211> 310
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G11

<400> 28473

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ccttggggcc cgatttcacg gaactcggag tacactccgg cgatgagatt gcctcaatat 120

gatgaacctg aggcctgat agaaacagtt gacaatggga attatccgta cgcttctaata 180

cttctaccgt ggcgataatt cgactgctag gcacgctgct tcgacaagaa tgggctagac 240

taggtcaaaa tatatcgtgg tgacgtacca tacctacatc ttcatagtgc tcaagctgtt 300

gatcatatac 310

<210> 28474

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G12

<400> 28474

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catggctgtc ggaaagaaca agaggatctc caagggaaag aagggtggca agaaaaagac 120

cgtcgaccct ttctctaaga aggattggta tgacatcaag gcaccgtcgg tgttcagtgt 180

gcgcaacatc gggaagactc tcgtatccag gacacagggt accaggattg cttctgaggg 240

tctgaagcac agagtctttg aggtttgcct agctgatctt cagggcgacg aggatcaagc 300

ttacaggaaa atcaggctcc gtgctgaaga tgtgcagggc aggaatgtgc tcacaaactt 360

tcggggtatg aattttacca ctgataaact gagatcccta gtgaagaagt ggcagacatt 420

aatcgaagcc catgttgatg tc 442

<210> 28475

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-019-Q1-K1-G2

<400> 28475

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ccacagcagc cgcgggcgagg tcgtccgctcg gattcggagg ctcaagttatt actgaaaaga 120
taatacagta cctatggctt ctctggacgc cgtgcgagga gacctcgccc tgctgattct 180
gtacctgaac aaggccgagg cgcgggacaa gatctgccga gcgatccagt acgggtccaa 240
gttcatcagc aacggcgagc cagggcctgc gcagaacgtc gacaagtcca ccagcctggc 300
ccggaaagtg ttccggctct gtaagttcgt caacgacctt catgctttga tcagccctnc 360
tgccaagggg actccgctcc cgctgaccc actcgggaag tccaagaacg cgatgc 416

<210> 28476
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G3

<400> 28476

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gtgattcctg gaagcagtag atgaggaggg cgacttgtag aatcaactat gggagcgagc 120
tacctctagc ccagggaatc aattttggtt aatcctgcag aaatggtgag cgtggatctc 180
agtgttttct gcagacgtgg atgccgtatg gaaagaactg atgcaaccgc atttgagatc 240
tcagcagact tgagcagcat ttattggcgt cagttgtgaa acttaaaactg caggagcatc 300
ttgtacataa ataaaataag atgtttgttg ctctggtggc gtggcacggt ttggtaccgg 360
tgtccagtct actaataaaa tctaatagc 388

<210> 28477
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G4

<400> 28477

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gacatcgagg ggaacaagtt cagcggcaag atctcgcaag acttcaacaa gctgatccgc 120
ctcggaacgc tgtacctga cggaacagc ttcaccggcg agatcccaaa gctgcagctg 180

cctgcattgg agcagttcaa cgtgtcgtac aaccagctca acgggtccat ccccaacacg 240
ctccggaaga tgccgaaaga ctcatcttta ggcaacacgg gcctctgcgg cgggtccactc 300
ggcctgtgcc ccggcgagtc cgcgcccacg ccggccggat cgccggagtc gcagccagga 360
gcgggcggtg cagtcgacgt cgggtggcggc aagaagaa 398

<210> 28478
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G5

<400> 28478

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gttacatgaa agatccttct ctaaatacctt tgacatcagg accatatggc ctcatctttg 180
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gaagacgttc cattgtacct ggactttctg gcatattggc tgggcttctg tatcgctga 360
atacatttgg cgtccgtagg ttgaagttcc cagagttcgc aacatcgctc ttctcgcagt 420
tgtcattgcc cttttcaagc aatccatata aagggttacc gatcac 466

<210> 28479
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G7

<400> 28479

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcggacattt 180
tagagccatg tgattgggaa aactgttggg gtgacaaaaa ttttttttat tgggtggcct 240
tttttttatg gcatggtggg gtttttaaaa aagtgggtccg ggggaaa 287

<210> 28480
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-G8

<400> 28480

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gagaaggcgg aaccggagtg ccactcgtgc gagtcgggct cgccaccctc gaccggcggc  180
gtccccctgc ctcccgtcag cataccgtca gtcccgtgc cccctgtcag cataccgtcg  240
gtccccctgc cccctgtcag cataccgtca gtgcccctgc cgccggtgac cctccctccc  300
attccgatcg ttgggggaag cccgagcccg acgaagaagg gacaccggaa ggcgtgcccc  360
ccgtctncgt ctnccccgcg gccacgccc acgccacgc cgtccttggg caagtgcccc  420
attga                                           425
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<210> 28481
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H11

<400> 28481

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tgatggccaa gacgagctcg ttcaagctgg agcaccctct tgagaagagg cagtctgagg  180
ctaacgggat cagagagaag taccctgaca gaattccagt gattgttgag aaagctgaga  240
ggagtgacat tcctgacatc gactagaaga agtacctggc cctgctgat cttacggatg  300
gacaattcgt gtatgttgct aggaagagaa tcaagctcag tgctgagaaa gctatcttc  359
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<210> 28482
 <211> 88
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H12

<400> 28482

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cgagtcctct tcgcgtgggg tgggggcc 88

<210> 28483

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H2

<400> 28483

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agcagcagggt gcaaattgcag aaactcgtat accaagtcgg aggtgccttg ccgacaaaag 120

ttgtctgcct gacacaggta gtgacagcag atgaactgag agacgatgag gaatacaatg 180

acattgtgga ggacatgagg gaagaaggac gcaaatatgg taacttggtg aaagttgtaa 240

ttccacgacc tgaccccgag gatgccccag ttgctggtgt tggaaagggtg tttttggaat 300

atgcagatgt cgaaggctcg accaaagcaa agacggtgat gcatgggcgg aaatttggcg 360

ggaaccagggt ggtggccgtg ttctatcccg aggac 395

<210> 28484

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-019-Q1-K1-F8

<400> 28484

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ttccagcttc tcccatccaa gattcagggt ggagtcttct ctgctaccat gccccctgag 120

gcccttgaga ttaccgcgaa gttcatgaac aagccagtga gaatcctcgt gaagagagat 180

gagctgacct ttgaggggtat caagcagttc tatgtgaatg tggataagga agactggaag 240

ctggacacac tgtgtgacct gtacgagacc cttgccatca cccagagtgt catctntgtc 300

aacacccggc gcaaggtgga ctggctcact gacaagatga ggagcaagga ccacacttgt 360
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<210> 28485
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H3

<400> 28485

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 cgcgtgactt cgcctcatcc tctccggaga tggacttcca ggtcgtcgtg ctgccggag 120
 gcacctgcca gaaactctcg cccctcgttt ccaaggacgt tcccaaggcg ttgctcccg 180
 tcgccaatcg ccccgtactc tcttaacgcgc tggacctcct tgaggccagc gacctcaagg 240
 acctcatcgt ggtgggttag gggcacgagg cagcgcagct tgtcgacgct tgggtatcca 300
 gtgcgtacct ggatcggcct cgagtggagg tagttgtggt ttctgaagac cttggaagt 360
 ctggtgcatt acgagctatt tcaaagcgac tgatggcaaa cgatattttg gtagttagcg 420
 gtga 424

<210> 28486
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D9

<400> 28486

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 gtaacagtga tggtagtgag agcagcgatg atgacaagag gacatagact ctactcaaca 120
 gcaatctttt ttcggttcag ttgttatgat ctttacatat agttagctac attgatagcg 180
 gaatgtgggg tcattttttc tgtctggccc attttgtgta catccttttt gacaacaaac 240
 aggtaaaagt gacaacgttt gcaaatcgac aaacaatggt gagttattca atctaaaaaa 300
 taaaaaagaa gcagaaaaat caccacaacat gtttacagat agcaaggagg caccaaagaa 360
 aatatgtaac acc 373

<210> 28487
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-E10

<400> 28487

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 gaacactgaa attggcgatt ggtaccgacg catggaagac gcagttggag aaccatcaag 120
 aatacaggat gcacaagcaa actagaatTT tgacaacatt cttttaaata tntctatgag 180
 gtatctcgtg ccctatgcat ggaggctatt caaatTTTT gccagaatca agtgtatgca 240
 ataatgctct gccagattat taagcataat aggctaatag cacctgagga acagtgtttt 300
 ttgacttggg aacttggttg tgttactgcg taaggTTTT ctcccctaaa aaaaaaatgt 360
 attcattttg atgat 375

<210> 28488
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E11

<400> 28488

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 aatagtccgg cggTactaac gatctaagcc tacgcacaat actattcgat gtcatgtcct 120
 cgaatcctgg ctttatgtcc agtgacgaaa gcatgatccg gtatttcggc ccgttcaagc 180
 caccgagcta caaccagtag atatgaaaaa tcctctagga gctagagcta tacaagatgg 240
 acctgcactc gtacgacgac aatcagatc ggtacagcat cagctccggt gcgtcgtggg 300
 agcacgaaac gccgtcgtcc aacgcatggc taatgatgac gatttgcct 349

<210> 28489
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E12

<400> 28489

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tttcatgcct tgctgcttcg cttgtgttcg tctctccacc tagtcaggct attcctgcag 120
aaacctttgc ccgtccaggc ttgtgccaga ttgcaacagt ggcagccatt gacagtgcct 180
caggctcctc tgaagtttga caacccttca gatgatgtca gcacagggat gatgatgagg 240
ggatatgaccg tcaaaaactt cgatccagtt cgctactctg gtacatggtc tgaggtagcc 300
tcgttgaaac gtgcatttgc tggtcaggga ctagaagact gtcactgtac tcagggagtg 360
tattcttttg atgagaaggc acgctcaatc cagggtggata cattctgtgt acacggtgga 420
cctgatggat acatc 435

<210> 28490

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E5

<400> 28490

taaaaaacat aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaatggg 60
aagggaaaaa aaaaaaaaaa aattaatata aacggcctgc ctccctcata gttccaacca 120
ttccgggact cctgcatgct acttccaacc ttccctttgg cttcacccaa ttcaatttcc 180
ctgcccttct ttccctaat tctaaactgc tttaaccctt ttcttcccca atcttatttg 240
cttaaccctt catttc 256

<210> 28491

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E6

<400> 28491

gttcattctt ctcccatag tgctctatgc gatccctgcc agcgcagcag tcttgctact 60
gtacatcctt atcacggtgc tgttcgcgct ccctcgttc ctgatactgt atttcgcgta 120

tccgagcctg gactggcttg ttagggaaat ctttgcctga gatttccttg ttcggtaaaa 180
 tctcaatgct gttgttgagt ccttgataa ctgaaccttc cctagatctt gttgcaagcg 240
 tggatgctat tgcaaagttt tggtttttac accatgagat gtgttt 286

<210> 28492

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E7

<400> 28492

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 gtgaagttgg ttcttccact atgctcata aaatcaaccc cattgatttt gaaaatagtg 180
 atggcaattt atgtcaggcg aattctatat tgtctggtat aagcatgaaa ctaccaatat 240
 cccggttgca gcgtgacctc acagactcga ctgttttgag aaacctgggt atgggattag 300
 gtcattctct attggcttac aaagctacca tgcgtggaat cagcaagggt caagtgaatg 360
 aatcacgttt agctgaagac ctggagcaaa cttg 394

<210> 28493

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E9

<400> 28493

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 gactttgaag aattctgtgc tgcagcaatc agcccgtaac agctggaagc tttggaaagg 120
 tgggaagaaa ttgctggaac agcttttcag cacttcgaac aagagggcaa ccgagttata 180
 tcagttgagg agttagcaca ggaactaaat ctgcgcccga cacattactc cattgtgcaa 240
 gactggatca gaaaatcgga cggcaagctt aactttcttg gggtcaccaa atttttgcac 300
 ggtgtcacga tacgggggtc aaatacaaga cgacactaaa cagatgcaaa ctgtattcgc 360
 ttctaatttg aaacctctc atcgatta 388

<210> 28494
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F1

<400> 28494

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ggaagagaat gagaagacaa aagctgagaa caaggctgct aagaaagtat ccgctattct 120
ttcatgggaa aacacataga aagcaaacat agaagctgaa ctgaagaaga ttgaggaaca 180
actggaaaag aagaaggctg aatatgcaga gaagatgaag aacaaggttg caatgatata 240
caaggaagcc gaagagaagc gagcgatggt ggaggcaaaa cgcggtgagg aggtcctgaa 300
ggccgaggag atggctgcca agtaccgggc caccggccac gtcctaaga agctcatcgg 360
ttgcttcgga gcttaagaag ccttccaagt cagaccgagc agaaagtga aaacg 415

<210> 28495
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F12

<400> 28495

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tgcaagaggt aaaagggcca tgtcacattc gggggccagc acttcaatat cgagaattcc 120
gcacgttttag ttccgctggt atgcccgctg actcgacttg gccacaaaca accactgtct 180
ccagatctcc ttaatcacct accgcgaaat ccctgatttc actatcatat cactatcggg 240
atacccatag gtcccttatgg cagcagggtg cgtcacctta atcagcccca tgacgcaa 300
gcccattgcc aatttgatc tatcacaatg gtgctggacg gccgcaatat tagcgtcatg 360
ctgaacatgc ttgccaacga tcacg 385

<210> 28496
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F3

<400> 28496

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gtgatcgct gccacaccaa ggacgagttc gacgcccga tggccaaggc caaggagcag 120
ggcaagctgg tggtcacga cttcatggcc ccctgggtgca gtgggtgcc gatgatggcc 180
ccggtgtacg cggactgcgc cagcaagtac ccttcgcgg tcttctcga agtcgacgtc 240
gacgaactgc tggaagtcgc gaagatctac ggcgccatg tgatgccgac cttctgcttc 300
atcaggaacg gcgagacgt cgagagcttt gctaccgtc acgaggacga gctccgggac 360
gccgtcagga agt 373

<210> 28497

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F4

<400> 28497

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gtgctgcgat ctgctgcga acgacgacta ccctttatga tccgctgtgc ttacgcctt 120
ttccctactc gatctcttct cctacttcc caatgcaagc aaacagtcgt gtgctctgcag 180
ctttactttc ttggtcattc ttttcttget gctactttta cagatgtata ggaccgtcaa 240
gagcactgat aagccgtctg cagcaacctc atcaggaggg ggagggccaa ctgttgacgg 300
tggtggcggg tccggcgact actaccacc gagcgattgg ccgctggctc cattctcatc 360
agctggtcag gacgtcagcc cgcacgcgtt cactggacac cg 402

<210> 28498

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F6

<400> 28498

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gaaaatgact ttataagttt gaacaagagg gcctcgatgc tagatgtgca actggagtgc 120
 caagatctgg agagaatttc tattgtaaat cgtctgggaa gatttcatgg ccggagccat 180
 gcatcggcag ttgagagttc atcagctcca gaaatgactc ctcggagaat ttttcctgaa 240
 agacatgtca tgtcttttgc cgtgcctgga aatcttctcg aaggagtgtg ctgtttgtca 300
 ctctagtgga atgatcttca gttattttct agccgcaatg atgatcccg gtcgcgcct 360
 gtgattccca gtgctccttg tcccatgcaa agcatggcca aacagaaaga tcatattgtc 420
 aaggggtaac ttgagaactg ggagcataca gttccacgat gag 463

<210> 28499
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D8

<400> 28499

gaaagagttc acctgttaca agatccttaa ggatctcaat cacgtattct gctgcaatgg 60
 tactgcagtt taggacccac agctaggcca ggtcattcag ctccaaggcg atcagctcaa 120
 gaatgtcgct actttcctag ttcatactgg gatcgcgaat aaagagaaca tcaagattca 180
 cggctctcta agggacctgt aaatgcatgt gccctatatt gtgtgccttc acatattgtg 240
 tagcttgaag catcgacacg ttactagtca ttgcttactt atataagaac ataagtcgta 300
 tttgctattg tcaagtgtgc cttgcttgat gcaagttgcg ttttcgtatc attattatta 360
 tgcacggtca tcgtacgtgt atggctcgta tgggttaatg ccaacttaat aaaagcacac 420
 tctgttggc cta 433

<210> 28500
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F7

<400> 28500

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 aggaaacggg acggatgaca agcgtggtgc gtcggtggct gggtagagga gcggtctaacg 120

ccgactgtat gaggetgtcc gcgggtgggg agctggccgc gtcggtgatt ggggagctgg 180
ccacgccggc tggggtggat ggaggcgcgc cagtgactgc ccagcaggga tcgccgtgcg 240
gctcgccgc tcgggatcat cagcgtttg ggagggaggc agctggcatg tggaggaggc 300
tgcgcatgg aagattcggt gcctcggttg tgatcgcgaa taggttcgct caaccgaggc 360
ctcatattta cgctccttac gttggagtcc tatgttgatt tggatcaaac ttataaaata 420
acagcttttt ttgaatgatc cataagcaag tg 452

<210> 28501

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C3

<400> 28501

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agcgaagcga ccgcgcgtcc gcgcctccg tcgccaccac catccgctcc gccgtcactc 120
catcgctcgtc cacattgctg ccatccgctc tgccgctgct ccatcgctgt ccttccccga 180
agcagtcgtg agcgagacgt gaggcgacgg tgccctgcac cactgccacc gtctcggatt 240
tgtcgtcctt caccggcatc tgtgcctcag tttgctgtcc tgcactaccg tcttccgcgg 300
cactatagtg gaggaacac atgaaaccaa catggagaag aaaaatgaaa tggcattcca 360
cataaagctt gtgaaaaaga gttaaactcg taatttatcc t 401

<210> 28502

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C4

<400> 28502

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gagacattga cggagcatgg ccaccactgg attggctacg atatttcaa gtctatgctc 120
gatgttgctt tggagcgtga aacggaagga gacctcctac ttgcatatat ggggcagggc 180
ttgggcttgc ggccaggaat tattgatggg gcaattagta tttcatcaat tcagtggtta 240

tgcaatgctg acaagtcttc tcatgaacca agattgctgt taaaggctat cttcggctca 300
 ttatatatat gcctagcacg gggagcaaga gctgttctac agttttatgc tgataatgtg 360
 acgcagagtg aaatgattgt ga 382

<210> 28503
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C6

<400> 28503

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 gtacttccac caaggccttc atccaagctg acagacatgg agatagatga atgcgaggag 120
 acgactatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca agctcacgct 180
 gcccaggagg cgtacgagga ggacgacgag atgccgggag gagcccagag agtgcagtgc 240
 gcgcaacagt aagcagacta tcatcaaggc aattgggagg ggtgggtgcc ttaaagcatg 300
 ggagtgatct ctggttttgc tgtcgccgag ctgggaaata ggaagctg 348

<210> 28504
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-C7

<400> 28504

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 aaatcttctc aggcaagggtg cagcatttgc aacggagatg ttgatgaggc ctctttattt 180
 cctaacctcg ctctaagagc ggtagctacc gtggtgaaga tggaagacga taggaggctc 240
 tttcacaatg cggcccttcg aaagcgcgtg aaagaagtga ctgagcatat ggatgcccaa 300
 aggcgaaatg gaagtagcaa ggacagtatt gagctggggc tagaagctga aagccctaga 360
 gcgttcaaag ggggtgcagta cccgtttgtg gtgggtgaga gagtncatgat catgggaaac 420

<210> 28505
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C9

<400> 28505

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cgccgccgga gcagctggcg atcaagccccg acatggccat ttccgtggag gcgtaggttg 120
gttaacatgt aatagcagag tgagtcgata tcgatcagta gtagatttgt cgagtcaagg 180
aaggggcctg ctgctgctgc tacgcgacag cagcggccag atgtactgcc tgcttgcattg 240
catgcatgca gtccctccccg ttgactcgac ccgtagagat gggatgggaa tggaagtagc 300
cgggtccttg ggcgagtagc ggcgcttgg caccacggg ccagccgtac tggcctgtgt 360
gatgaaccgg cgagagagag atgagataat gtgcgagcga gagagggttg ggttgggttg 420
tggtagttga aga 433

<210> 28506
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D1

<400> 28506

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aagttaaaaa aagtggagca cgggttaatt tcaagaggga gcatgataag aaagtttgct 120
gcttgggcct gacctctctt atcgtgcttc cagctgataa gattccagca gaagcttttg 180
atcggatctt caaagcatca cttgagcttc ttgttgctta caaggaccaa gttgcagaag 240
ctaagaaaga aaatgaagag gctgctgatg atatggatgg ttttgatgct gatgaagaag 300
atgatgatga aattgactcc gataaggaga tgggtgttga tgat 344

<210> 28507
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D10

<400> 28507

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tatcgcaaga atgcatttga tgctggagaa gatggacttg gaaaaaatgc tcattctctt 120
aagaagggat gcgattgctt gggctacata aaatattttg atgcacattt cacaaaacttc 180
actggtgggtg tggagacaat tgagaactgt gtttgtttgc atgaggagga tcatgggatc 240
ctttggaaac atcaagactg gagaactggt ttagcagaag taaggcggtc aaggaagctc 300
actgtttcat ttatctgtac agttgcaaac tatgagtatg gtttttactg gcacttctat 360
caagatggga aaatagaggc agaagtaaag cttactggaa ttctcagctt aagggttttg 420
atgcctgggg aatccaggaa atat 444

<210> 28508

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D11

<400> 28508

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cccacgcggc ttcgattgat cttatttcag tgctggtggc atgcggaccg atcgtgtcct 120
tgctaggccg gccacatcag gcatggacga ctgagacctg gacttctgca acccggtcac 180
gtacctgtgc cctggactcg tcaactgacc tgccagcagc tgctacatgg acagatactt 240
caacgagatc ctcaaagaca ctgagcagca cgcactgcta gcacacgcac agctggcatc 300
ctgcgttgca cgagctatcg cacacactca cctgcgtcca cgtggacacc aagat 355

<210> 28509

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D12

<400> 28509

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cgttttcggt tgattgcttt ttatgctgtt tatgtttttt ttggtggtaa atatattttc 120

attcaaattgg gaaatagtga gttccagtcg tgacaggcca aaattggatc ccgtggcatt 180
 cggccatagt atgataacct ttaactcacg attattacgg gtcctgagga ggatacaaaa 240
 gggcttcgga tgtacaatca gagcttgtgt gactggacag tttgcaacat ggggtgaaca 300
 attcaccata ttttatccaa gttcaattcc gagattatgg gtcaaa 346

<210> 28510
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D2

<400> 28510

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 ttccaatcga gagagagact tacctggacc gtttgtcact aaggtttgac aaggaaggtc 120
 aacctctca gcttgcacca atcgacttct ttgtcagtac ggttgatccc acaaaggaac 180
 ctcccttggc cacagcgaac actgtccttt ccatcctttc cgtggattat ccggttgaga 240
 aggtctcctg ctatgtttct gatgatggcg ctgcaatgct tacgtttgaa gcattgtctg 300
 aaacatctga atttgcaaag aaatgggttc ctttcagcaa aaagttaa atcgagcctc 360
 gtgctcctga gtgggtacttt caacagaaga tagactacct gaaagac 407

<210> 28511
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D3

<400> 28511

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 tcggcatgat tttgtacttt caaagaaaga gtttgccgat tcttattggg aaacactaga 180
 gtgttgttat ttaacagctg gtttggtctga cccgtttagt gccttacctg gcagttctgt 240
 ccctgtagtt cgtctcatct gctgtacatg attgatgcat atgattatcg catacgttga 300
 ataaatgtac ttagcgcttg aatgggttgc cccaactta cataaggtag cttctgggca 360

tgggcagtac ggtgagaaac aaccaccttg atgcctaaat gaaggtccca tatttgtgtt 420
taccat 426

<210> 28512
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D4

<400> 28512

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tctgtccagc aggcccgctc ccgaagcagg cgcattgcga tgcacaggca caggcgtcgg 120
ataagccgtc caccacggcg ccgagctatg tcagcgagta cgtcggccta cgaggcggct 180
gcagcggcag cgccctatac tgcaccaact cgtcgagcgc gttcgacgcc gagctcttca 240
tgaagtttgg cgaggtgatc tcgcggagca cggaatagtc caatagatcg acgatcattg 300
tgtgttacag tttaacaatag gtgtctggcc ggcgcctgt gatgtgactc gctgcaaata 360
tgctgctgcc ttatcgttgg gactccacta ggcactagta gc 402

<210> 28513
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D5

<400> 28513

cggactcgtg ggcggactcg tgggcggacg cgtgggcgga cgcgtggggc cgaatctctg 60
ccagttgaac cgttggagcc tagtgatttg aagccagaga acagtagata tgatgcacaa 120
attagtgctt ttggggctaa gcttcaaaag aaactggagc agtcaaaaat cttcatggtt 180
ggttctgggg ctcttggatg tgaattcttg aagaaccttg cgttaatggg tatttcttgc 240
agtcaaaatg ggaagctgac tgtgacagat gatgatgtta tagagaaaag caatctcagt 300
cgccagtttc tctttcgtga ctggaacatc ggacagccca agtccacagt tgctgcaact 360
gctgctatgg caattaatcc taaagctcat gtggagggcc ctcagaatag agc 413

<210> 28514
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D6

<400> 28514

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ccgatccggc gatccgtctc cttcctttcc ttcgttctgc cggccccgat cactcgtcaa 120
ccatggcggc ggcagcaggc ggaggagcgg tgcgtgctct gtcccagaag gagcaggaca 180
tacagatgat gtcgcccgcc gacgtccacc ttggcaccaa gaactgcgat ttccagacgg 240
agcgctatgt ctttaagcgc cgttccgacg gcatctacat catcaatctt ggcaagacat 300
gggataaact ccagcttgca gcgagggtta tcgttgccat cgagaacccg caggacatca 360
tcgtccagtc tgcccgtcca tatggccagc gtgctgtcct caagttcgct cagtacactg 420
gcgcccatgc catcgctggg aggcacaccc ctggtacatt cactaatca 469
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<210> 28515
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D7

<400> 28515

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gcaaccagca cacatttccc tttggcggat cgaaggaagg aaggaggaga tgggtggcgg 120
catggaggtg cacaaaaacc ggtggatcga agagtggaac gccggccgcg agaacctcga 180
gttcaatttc cgtcggaccc gccgcagcct cgccgtcgtc ggctctctcg gcctcgctgt 240
ccccatcctc gtctacaagg gcatcgtagc cgaattccat atgcaggacg aggatgcaag 300
ccggccatac aggaagttcc tgtaagcggc gtccagggcc gcatgagacg tcgatccctc 360
taccggagct gcgaggaggg gagtttccat tcagtttggt tcggtattgt tatagtctga 420
atctgattga gcattttgga atgcttaac 449
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<210> 28516
 <211> 392

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-C2

 <400> 28516

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 tgtcaaattg aaagagagtg gttgctaaag gataggaagc tgaagctgga tgaaggaagc 180
 aactacatgc aaccgatggc aataatgcat tgcaagggtt aggctcgtta gaaatgtcaa 240
 gttgggtccc gacgtgggta tgggtcccg c aaggccgaca gagctgagat caagcactga 300
 gatcgtgccc tcgtgcctac ggctgcatgt cacacctggc cagaggcata tgctaccact 360
 actgtttctaa gaggacaacc tgctcgatag ct 392

<210> 28517
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-B1

 <400> 28517

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 gtttggtcag ttgagttatt gcgcctgca ccattcaatg tttccctta gatgttggtt 180
 ctggtttggt gtttgtagca tgctctttct ttcaccagtt tctcaactct ttgaatgaac 240
 aaaactgtgc attatttggt cttttttttt actattattt ctgtagtctg gcgaagaggc 300
 cataatactg gcacccttc ctttccactg gacttatctg gaacgagaag agcacgtttc 360
 cgtctacctg ctttttttgg ctataccatg tcaactagca agtaagggtt gttaggttgg 420
 gtcac 425

<210> 28518
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-B10

<400> 28518

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cactagctaa cgggtggcatg tcattgcacc aaggatgact acatagatgc tttggcctcc 120

tatggagacc agacactctg attattccgc tgctacttat gaataatgct gatcattcag 180

tccaagcaag acaagegcgc actctcgtgt caaagctcat caggctaacc ccctaaatgc 240

acaggcaagg aggcggggcc gaggcgcgc atgcaaatgc tgcaccact ctcgcaattt 300

atgtagcttt tcttccatgc tcgcatgcac tatctcatc cgacactaca cctgcatcca 360

cgttcctac ttgcgcgggc tcttaccgta cacacctcat tcgccaatag ctagctgac 420

<210> 28519

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B11

<400> 28519

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gccggataag caggcggccc ccgcggcaca tgagacggtc gtgcacatcg tgtacgttga 120

ccgtcccag gacgcgcacc ctgaggagt ccacattcgc accctcacc ccgtactcgg 180

ctgcgaacag aaggccaggg acgcagtgc ctaccactac aagaacgcc ccagcggctt 240

ctccgcgaag ctacaccccc agcaggtcaa ggatctcaag gagcaaccag gtgttctcca 300

ggttggtgcc agccagactt accagctaca tggctcctgg tctggcactc accagggcac 360

gacacacacc ttgggcctta tgtgaaggcg tatgagaatc aagaagattg tgtttaatat 420

ggct 424

<210> 28520

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B12

<400> 28520

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tgtgttcttt tcttacgctg cggcacctaa taaatgactt gccttctatg ttttcgagaa 120
acttacatta ttcttttcta tataacaata atactgtcta ttcagt 166

<210> 28521
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B3

<400> 28521

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gttggcattt atactgtcct agtctaagct aagccccagt ttgcctaata cctcacgtat 120
tgatgtttgg tcacctgagt tattgcccct gcgaccattc aatgttgccc cttagatgat 180
ggcctcggtt aggtgtttgt agcatgctct ttctttcacc agtttctcaa ctctttgtat 240
gaaccaaact gtgcattaag tgttctctac ttttactatt atttctgtaa tctggctaaa 300
aggccattat actggcgccc tttcctttac actggactta tctggaacga gaagagcacg 360
tttacgtcta cctgcttttt taggctattc catgtgaact 400

<210> 28522
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B4

<400> 28522

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tgggcccggc tgggtgcggg cgaaggcggc gcggctcgcg gcaaggaaga aggggtcggg 120
ttccttcacg atcgactgca ccaagccagt ggaggacaag atcatggagg tcgcctcgct 180
cgagaagttc ctgcaagagc gcatcaaggt cgccggcggc aaggctggca acctcggcga 240
ctccgtcacc atctctcgcg agaagaccaa ggtcacgctc acctctgacg gacccttctc 300
caagaggtac ctgaagtact tgaccaagaa gtacttgaag aagcacaacg tgcgggattg 360
gctacgcgtg gttgctgcca acaaggaccg aaacgtc 397

<210> 28523
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B5

<400> 28523

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cacagaaaaa agctgcagcc tggagaccat cgtcattcat gaaggatatg ctggactaga  120
gaagatctca ttggccgggt gtgctcagct agagaatgta ctcttgacag gatcattcaa  180
tgagctcgtg agccttgata tctcaggatc agctgtgaag aggctggatc tcagtgaat   240
gatagtgtctg aaacttgatg agatcattct actagactgc aacatgctgc gtgcaatcct  300
atggcctccg gaaggaagaa agaaaagata tcctagcaag ctgcgcattc aaacaaaaaa  360
ggagagtagc acaccagtt atatgtggtg gtatatttca gtatacgatg aaaggctgct  420
ctggtcactt                                     430
```

<210> 28524
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B7

<400> 28524

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aaaaaacaat caagacacta aactgggttac aaaagaacac aaacaaaaag ataaatggat   60
gcgaaaaaaa aaagctatag aactgtagtc tataaacatt cattggcgggt attctggact  120
aaatctgact tgattggtct tcgctctcag gggagaatat actctgcctg ttgactgaac  180
tggcagtgcg catcctgctc tatcgtcttc gttgaagtgg acagcgtatg tgtgatgggt  240
cgtgaagatc actggtgtga tcatt                                     265
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<210> 28525
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B8

<400> 28525

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caggaaccat caggggtgat cttgccattg ttgttgaag aaacatcatt catggaagtg  120
atggcccaga gacagcgaag gatgagatcg ctttatgggt tgaaccaag gagctggtct  180
cttacaccag caatgcggag aagtggatct atggggtgaa ttaacgagag agtcaatctg  240
ttttttttcc ttcttttgat ctcggttttc acataattgc cgacagacct aggcacaagg  300
atgtaataaa gtcgctaccg tcacttctga gttggattgt gaccttcagg tgtagtaagg  360
cacaaggaag gatggaaagg aaaggaatat accgtgaaat atagagcgtg cactgagtag  420
tcgcgatggt caaatcaaac ta                                           442

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<210>      28526
<211>      376
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-019-Q1-K1-B9

<400>      28526

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caggtgccgc gacttctctc ccgaaaactg cggttgcaag atccactaga gactcatcca  120
attccaccat ggccgcgcgc cacagcggca cagccgatgg atccttccat gttcctccgt  180
ccgtccgcct tgctacaagc aggcagccac accaataagc tagctcttgt tgttgttttg  240
tatgtttgat tgggtgtccc ttcccagtcg agatggaata aaataaatca tcaggcgcca  300
ataagcaaaa aaaaaaaaaa cgaatggcac aatcaaagaa acaatcgaat aaaataaatc  360
atcaagccag acaaaa                                           376

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<210>      28527
<211>      390
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-019-Q1-K1-C10

<400>      28527

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aaaaaaaaata aaaaaaaaaa aataaaaata aaaattaaag gccggaactc cagctggtcc   60
agggttgatg gcgcctaaag tcgacatgat acccatggca tagaatccgc tagatgagga  120

```

gccccgcggcc tagaatgcac acgtcgtgaa taagacaacg cggagaatcg gatcccaaat 180
ggcatgtccg ctgacaagga tgtcgccaag ggcaatatgg gcaagaagaa cgtcaagaag 240
agcgtgtaga cctaaaagat ctacattttc aggggtgctga accaggctct gccggacatt 300
gttatgtcct ccaaggccat gtggatcatg aactcttaca ttaacgattt ctacgagaag 360
ttcgctcctg aggccgccaa gttttcgcgc 390

<210> 28528

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C11

<400> 28528

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gaaagaagag atgccgctcg tgcattccagt ctgctccttt cctaccatct gtcgtagttg 120
ttgttgtaac ccttctgtca gttttttcat tctattgttc ggttgctccc cttcaactgc 180
tccagttttc agttcttcta gccggggcgg gtagctcatg caaaagtagg agtccagctt 240
tctggaagtt tcttgacta ggtccgcgat gcataacaga gatttctgaa tctgacaga 300
accttattac tttcccttga gggatcaaat ttcggcgact gaataattgt ttggtttcca 360
gcataaaaaa ataattattg tacc 384

<210> 28529

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C12

<400> 28529

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tgacgcgtgg gaaaacactt aagcggataa ggcatacaag gaccggaaca agctaagcag 120
ctgaagaagc cagcagagga agagctcctg tactagaag gcaccctact ggaagaagcc 180
taaagctgat aagctgggtcc tctctggcaa'gtccagctgt caaggagtac gtcaagggtca 240
agaggggcaa gaagaagggc aaaaacagcg tgtagacctt caagatctac atcttcaagg 300

tgctgaatca cgtgcaccca gacattggca tctactccaa ggtcatatct atcatgaact 360
 ccttaattaa cgatatcttc gagaagctcg atgctgaggg cgtaagctc gcgcgctata 420
 acaagaagcc taccatcaca ctcccttgaga tccatacc 458

<210> 28530
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-019-Q1-K1-A9
 <400> 28530

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 aacaactcca ctgccaacag cgggtccggc gccttaaaac gtgtaaccat gatcaaactc 120
 tggaattaaa catttataac gtcgatggcc aaggaccatc tcgcccaagc taaatcaaag 180
 gtttgtcatt aggccaacgg agaatgaaac tatcacttat actttactta tctgaagtcc 240
 atgagatggg tgataaggct cagaggtaga tacacctatg acataggacg ggagaccata 300
 attcctaaaa gaatatgtac catatatata acatgcatac gtttgccata ggtgcatcaa 360
 gatgcgtact gagaacgcta tctaaatctt tgataactac actcctagca accacag 417

<210> 28531
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-H11
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 tgactattca accacctgga ccgagatcgg gggggtgtta acaatccctg ggataccaag 120
 gatgatggct tttgccggtc cttatcctaa gatgaatatg gaccacttg tgaaggcatt 180
 ggccgaatgc catccgcgga ggaacttgc tacccttaaa ttgctattgg gtaaccgcaa 240
 ggctttttcc agttggaaca aat 263

<210> 28532
 <211> 283

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H12

<400> 28532

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 gtggggggccc gcgggtcccg ctccacctgc aaccgatcc tgacacgcct cgcgggtgctg 180
 cggaactcga gcccgctggc cgcggccacc gatgcccag gggatatgct actccgcttc 240
 gcctgggagt ccgcgcggg ctccctcgta agctccgctg ttg 283

<210> 28533
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H2

<400> 28533

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 ctaatatata caatgggggtt ccttattttg gtgcacctga gccctccctt cctccagatg 180
 caacaaacac catttatggt gagggcctcc ctatcaactg tactagacgg gaagttgcgc 240
 gtatccttgt gtggatgatg atttctcttt ctgatcttat tatgaaactg agttgtttgc 300
 tggctctttt ccaccgctga actataatct acattcaggt gctgtcaatc catatg 356

<210> 28534
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H3

<400> 28534

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 tatecttatc ttagttcttt caggacttcc ctgatcattt gcatgaaagg gccgtttact 180

ctcagcaaat gtcatgatta cgattttttt agtatcctaa ttgctgtag ttgatagctg 240
 taacttaaga gtctgaaaga ggctgggaaa aaatgatact ggtgacttac cagcacctgg 300
 ttggtataa cttattccac ttg 323

<210> 28535
 <211> 96
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H5

<400> 28535

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 agtgcccaac aacatgggtcc caaaggctga ctaatc 96

<210> 28536
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H6

<400> 28536

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<210> 28537
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H7

<400> 28537

cccacgcgtc cgaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaagaaaaa 60
 agggaaacgga 70

<210> 28538
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-018-Q1-K1-H8

<400> 28538

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cgatcatcaag gcaagtactc agtggagaaa agttcaggaa cgtctggagg acgatgaacg 120
ttattcccga cttgagaagt ttgatcgggt ggatattttt caagagtaca ttcgacacct 180
agagaaagaa gaggaagagc agaagcgggt acaaaaggat caagtgagaa gacaagagag 240
gaaaaaccgt gatggggtttc gtaaaatgct ggaagaacat gttgctgatg gcacacttaa 300
tgcaagaact cnttggcgtg attactgtgc acagataaaa gattcacagt cctacttggc 360
tgtagcgtca aacacatatg gttctacacc g 391

<210> 28539

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A1

<400> 28539

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gggtgtggctt gaccccaacg aggtctacga gatctcgatg gctaactcgc gtcagaacat 180
tcgtaagctg gtgaaggatg gattcataat taagaagcca cagaaaatcc actcaaggtc 240
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caggggtacc agggaggcta ggctccccac caagatcctt tggatgcgca agatgcgtgt 360
ccctaagcgt ctgctgcgca agtatcgtga agcaaagaaa atcgacaaac acatgtacca 420
cgatatgtat atgaaagtaa aaggaacatg gtttaaaa 458

<210> 28540

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A10

<400> 28540

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 cggtcgctg cgtacgccat tccgcacgtc gtcggccacg aatgagtcag gtcgttcggg 180
 ctctggaagg cgacgtgtct ttggaggacc ttaatgaagg tgttcgacct ggccatagcc 240
 gcttcttttg gtcatatagc agctctgatt acgattccgg gcagtacaac gaggacatgc 300
 agaagttcag gaaggcggcg ttcaataaca acacctacac cagcagccaa tacagcgcgc 360
 caaccagtga atactgccag gtgccgtctg gatc 394

<210> 28541
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-019-Q1-K1-A11
 <400> 28541

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 agtccaggct ttataaccca actacttctc ctagtcttgt tgcattctgca cagggctctac 120
 agaatgagga cttctcccca agccagctaa gtcaaagtgt cggatctcat gcaacgatga 180
 tggccaacac cctttgcaca ccaatcattg tatctacaca gacaggctcc atggctgtcc 240
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 agcaacggct agcaactctac cagggcgtca tccctattca catgcagttc tctgacgacg 360
 cataagaaac tttctccaga gcaattagca gcttgctgaa agcacaatat gtgaagaaag 420
 gag 423

<210> 28542
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-019-Q1-K1-A2
 <400> 28542

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 cctaagatca tccatcggga tgtcaaagct gcaaatattc ttttgatga ggagtttgag 120

gcagtcgtag gtgatttcgg gcttgccaag cttatggact acaaggatac ccatgtcaca 180
 actgctgttc gtggaacaat tggacacatt gctcccgagt acctatccac tggcaagtcc 240
 tctgaaaaga ccgatgtttt tggatatggg atcatgcttc tggagcttat tactggacag 300
 agggcatttg atctagctcg tcttgcaa at gatgatgatg ttatgcttct tgactgggtg 360
 aaaggactgc tgaaggagaa aaagggtggag atgttggtgg acccagatct acagaatgcc 420
 tacgaggaga tcg 433

<210> 28543
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A3

<400> 28543
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 accgtgacga gtcgtcacct tacgctgcta tgcttgctgc tcaagacgtc gcacagcgct 120
 gcaaggagct tggcattact gcactgcaca ttaagctacg cgccaccgga ggctacaaga 180
 ccaagacccc tggacctggg gccagtatg ccctcatggc gcttgctcat tccgggatga 240
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 <212> DNA
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<223> Clone ID: LIB3067-019-Q1-K1-A4

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 taccatctt gctctccgtg gtgctcttgg tagttcaagc tcataccttg agcaagccag 180
 gggctacacg tcttcccttc tagcagctct gcgaccaaag atgtcttcta ctactggaaa 240
 tcgactcctg cactcgagtt gcccctgtc atctcctgta gcaaaccgtc cgctgtcgcc 300

ccaccttcct ctgaagaagc cacagttcag cgcgactttc tcaatctcgc atcgtatatatt 360
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<210> 28545
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 <212> DNA
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 aggggtgtag atgtggctat agaggcactt ggtaaggcgt taacattttc ccagtgcgcc 180
 aagagtgtgc gtgatggagg caaagctgtt atgatcgggc ttgctgcaac gaacgtaatg 240
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 gcaagggcca ggcaagacct tactcagata gtgaagctcg cggagagtgg tgccttcaat 360
 ctccagaaca ccatatcaag gaaatgcata ttcgaagagg cgaatggcgc ctatgaagat 420
 cctaatacgg gcatgatcgt aaga 444

<210> 28546
 <211> 333
 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-H10
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 cgacgactac tcggagggca gctgcaactg ctacaaccag acgtcgccga tcagcgccgc 180
 ctctttctac cgtggcggca cgagccagga gatgctgctc tcgacagatg aggtgctggc 240
 cacgtcgcgg gtgcccgtct ggctggtcaa catcacgcgg ctgtgcgagt accgtcggga 300
 cgcgcacacg cagacctaca agaagcagtg ggt 333

<210> 28547
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A7

<400> 28547

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accggttggt cgtgtggaga ctggtgtcat caagcctggg atggttgtca cctttgggtcc 180
aactggcctg actaccgagg tgaagtctgt tgagatgcac cacgaggcgc ttcattgaggc 240
tcttccgggt gacaatgttg gcttcaacgt gaagaacggt gctgtcaagg atctcaagcg 300
tggtttgtg gccttcaact tcaaagatga ccctgccaaag gaggttgcca gcttcacctt 360
ccaggtcatc atcatgaaac caccctggca gatt 394

<210> 28548
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A8

<400> 28548

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ctacatgatc gaaggggttg accgttctga actaccgaca cctgaagtat acgccaagcg 180
tacgactaga ccgctataga ttgttatagc ttacgatatg aggaagattg aagtagcgtg 240
ctaaatcatg atgaaataga gcatgaagtc actgccacac ccgaaac 287

<210> 28549
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F11

<400> 28549

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accagggctt gtgctctgca agaacgatct cccctgagat gaggagcaac ccagactctg 180
atagccagta cttggccgag ctgctcgccg agcaccataa gctgggggca ttcattgcaag 240
tgctgccgat acgcagccag ctgctcaacc aagaaatcat gcgggtgtca agcatggttc 300
atgaccatgg attcagcgat cttgacagac accggtttag aaagactagc cctatgtctt 360
gaccgatgga tcgggctgat ctacatggaa acggtcgcgg accatggaat gggatgcacc 420
aagagagatt gggctttcct 440

<210> 28550
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-018-Q1-K1-F12
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tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
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ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 300
aacggcaagg agctggacgg ccgcaacatc accgtcaagc tcaacatgct tgccaacgat 360
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ccgtccgact ttga 434

<210> 28551
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-018-Q1-K1-F2
<400> 28551

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 cgттаaggcg cccgccggga agaagccgaa ggcggagaag cgggtccctc ctggcaagtc 180
 cgctgccaaг gagggcgгcg agggcaataa gggcaagtaa aaggгcttga agagcgттта 240
 aacctacaag acctacatat tcaaggтgct gaaccacgtg cacccgгaca ttgacatctc 300
 cttcaaggcc at 312

<210> 28552
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-F3
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 gatgttctta ttgtggтgga tcataatgat tatcctgctt tactggagta ccttaaagga 180
 aagcgagacg atcagcagtt ccccgagatg ttggcatgga aagccatgca gcatgtcgcc 240
 tcttatgatt ctgcagtgtc agaatgгttg tggaagcaat caaataaagg agagatgttc 300
 cccaagctt tactgtgcca ctggagctga agtctacac 339

<210> 28553
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-F4
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 catggcatat gttgttctga agcaaaatcc ataatgcaaa atgcttttct tgatgaaata 240
 tatggctact actcggtgag aagttccgaa tggattaagc actactcctt gccagattac 300
 cttgctaagg ttgaggaaag tatggaaatg gaaaccaaga gggтggctta ctatctggaa 360

atttcaagtg gggatagcta cccgctctgt ttgcagggt gtaatgctcc tttgatggaa 420
acata 425

<210> 28554
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F5

<400> 28554

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aaaacagatc cttttgtgtt tttgatttgg tgtacgagac aagattatgg tgaaaaaata 180
ttttatgg 188

<210> 28555
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F6

<400> 28555

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atagacattg acttctcaca gtgectacag cttcaaacga tacctcagct tgtttttgca 180
ttgttgagaa gtccgtgttct tcgcttgcac gaagaaggcg tgctcccaga ttacaggata 240
tatctacaat gcctttacag tgcactggag ccatcatctg tagctaaagc catatatccg 300
gtttta 306

<210> 28556
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F8

<400> 28556

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 aaggagcagg gcaagctggt ggtcatcgac ttcatggccc cctggtgcag tgggtgccag 180
 atgatggccc cgggtgtacgc ggactgcgcc agcaagtacc cttccgcggt cttcctcgag 240
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 ggacgagctc cgggacgccg tcaggaagta cgccggcgct ggcaactacga cggctcctgc 360
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 gtcaataaat aaataaataa ataaataaat aaa 453

<210> 28557
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-F9
 <400> 28557

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 cgccgcgcatgg ccactgccta cccgtcgctc cgcttctcgc gcctgctcaa gcaacccgac 180
 gacgccagct ccagtcacca cggcgctccag gagctggagc tcgacgagcg cgacgtcgtc 240
 tggtcctccg gcagcgcgac ctctcgtcc tcgacctccg cggcctcctc gccgtccccg 300
 accggtccc cgaccgccag cctcgggagg ccgatttccg cctcgtcccc ccacttcccc 360
 gccggcagca tggggctgtc cgcgctcctc gccgacgccg acgaccacca cgcgcccacc 420
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<210> 28558
 <211> 112
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-G1
 <400> 28558

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aaagggaaaa atagaataca cataaatgca aaaaaataaa ctaaaaaata at 112

<210> 28559

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G10

<400> 28559

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tcgacaagtt atattttcct cttatcctgc ttaaactctaa ggatgtcctg taacatcact 120

aacttaggat atgggtgatg gtctgatccc aatggacaat ggtctcctac tttctcgatt 180

cgacgcctga gagacgcctg attccatacc atatgcctgt ggttgtagtt tgtaaaatgc 240

taaaaacttg actttgctag tatatttcct aatgctataa cccaatcctg ggtaaacaga 300

cgcatgggga tgaatcttgg acggaaccat ggacatttga tgtatgtgtt taatgttgcg 360

tacaatctat gtcgaattct gttgtaagtg ccgttcgcat agttttatat ctttgtgcc 420

gttattacag gtcttaa 437

<210> 28560

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G12

<400> 28560

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ctcagttttc atgaaagggt ctatggatca cgcggaaggg acgagagcag atcaaacaat 180

gatggattcc gtgctaggag cagaagtcct ggcaagcctg tggaagtttc caactggtga 240

ttgcatccac taggtgcaat ccaatttttg cgatggtgac gaaaccaagt aaaagatgggt 300

acctcgacaa gttatatttt actcttatcc tgcttaaate taaggatgtc ctggaacatc 360

actaacttat gatatgggtg atggtctgat cccaatggac aatggtctcc tactttcttg 420

atttgacgcc tgagaga 437

<210> 28561
 <211> 409
 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-G2

 <400> 28561

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 aagaagagaa ggtggaagag aaggaagaaa gcgatgatga tatgggcttc agcctcttcg 240
 actaggctgc acagtcatca cagtattgtt ttgggcagtg aaaccagagg aaaaccagag 300
 tcatgttttag attttaaggc ttgtttatgt tggaaagtac tggaaagact gctacttgtc 360
 tttatatattg gtgattcagc cgtatatattg tatgctgggtt gggatttac 409

<210> 28562
 <211> 257
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-018-Q1-K1-G4

 <400> 28562

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 ngtggtctatt gataaaaaag atttctttta tgggcaatca cattaatacc accttaagtt 180
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 aatcaacaaa ttcacat 257

<210> 28563
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-G6

 <400> 28563

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 cactcaatca gtgcaacgct atatccgaag ggatcatgac cgatgaactg aggagtttcc 360
 tggagctgaa cctgccgaag cccaaggagg ggaagaaggc caaatacagc ctcgggggtcg 420
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<210> 28564
 <211> 194
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-F1
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 gaagcgaagg catacatcaa agttaagtgg cgaagaacat gttcaggagt tgctccaagg 180
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<210> 28565
 <211> 104
 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-G8
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 agggaaaaaa aaaaaaaaaa aaaagacaaa aaaaaaaaaa aaaa 104

<210> 28566
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G9

<400> 28566

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gggcgtgctg gcccccttat cggatcagtt gacaaagcca ctcccacatg caattgtact 180
tgtcaacctc gacgaattgt caagtgggtc acacaaactt ttgccagaag gcactagact 240
agctgtcact cttcgtgggtg atgaatcata cgagcagcta gatattctta aggatgttga 300
tgatataaca atgttgttac ataatgttcc atatgttgag gagaagacag gcagggtgca 360
tgctgctagg aagttatttg agtacttaca ggccaatggc ttgaacttcc ctgtaattca 420
tcacataaaa ttgcctg 437

<210> 28567

<211> 195

<212> DNA

<213> Zea mays

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<400> 28567

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaagaaaa aataaaaaaaaa 180
aaagaaaaat aaata 195

<210> 28568

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C9

<400> 28568

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ccgcccctag gacgccaacc ctgaggagtc caaaatcgga accttaacct cggctcttggg 180

caccaaccat aaggccaggg cccacaggtt ttacacattc acaggacacg cctccgaggg 240
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 cacattgtgc ccagacacac tctcccata cacagggctg ggtctcggac tctccacggc 360
 gcgacacaca 370

<210> 28569
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D1

<400> 28569

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<210> 28570
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D11

<400> 28570

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 agcagcaaga agcaaagcaa tggagaacct tgcgagtgtg ctagttctac cagcgcagtt 180
 caccaaaactc accttcgaa acctgtacat ccgccgggcc gggccgggca gcaggagat 240
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<210> 28571
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D12

<400> 28571

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ggtggtgtgg agacaattga gaactgtggt tgtttgcatg aggaggatca tgggatcctt 240
tggaacatc aagactggag aactggttta gcagaagtaa ggcggtcaag gaggtcact 300
gtttcattta tctgtacagt tgcaaaactat gagtatggtt ttactggca cttctatcag 360
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<210> 28572

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D2

<400> 28572

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<210> 28573

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D4

<400> 28573

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cgatctttgt acagtttctc ttttcaataa tcaagatgag ccgtggtggt agtgccggtg 180
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<210> 28574
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-D6

 <400> 28574

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<210> 28575
 <211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-D7

 <400> 28575

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<210> 28576
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 cgacgacggc ggctgggtgca accgcgcg cgagcacttc gacatggccg agccggcctg 180
 gctcaagatc ggcattctacc gcggcgccat cgtgcccgtc aactaccata gggtgccgtg 240

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<212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-E11

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aagaaattgc tggcacagtc tttcagcact tcgaacttga tggccaccga ttgatatcag 180
ccgatgagtt agcacacgaa ctaaattgtgt cgcgacaca ttacttcatt gtgcatgact 240
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<223> Clone ID: LIB3067-018-Q1-K1-E2

<400> 28578

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aaaaaaaaa aattgtaaat atatataaaa caaaataaaa tatagaaaaa atataattaa 180
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<210> 28579
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E3

<400> 28579

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaag gg 162

<210> 28580

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E4

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cggagtacgg cagtcgcacc cccgctcgtc cgttccttgg tcgacccaaa ttcgccggcg 180

cgttcccctc ggctcctagt gatgtctggt ggtaacgcgt ggtcgcccgt cccttcgcac 240

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aacaacagcg gcggtg 316

<210> 28581

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E6

<400> 28581

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cctaaggagc tgggtatacc gaccaaagcg tactacgctg tggaggatgt taaatagaat 180

gcaactcaga aaagtcagaa tgtatttgtc catgttcctt cagaaattg 229

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<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations
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<400> 28582

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gctggttcat cacttgggcc ttctgcccgg aagaagaggg tctagatcag cagtgcact 180
tggagaattht tcggtttgag acagtggcgc cagagcacta atgctgggtca gaagacgatt 240
atctggatca agtttctaht cctgggatttt aacacggatg ttgaaaaatc caaatagtgt 300
tagttgcctg ttctctaaga tttgggtgggt cgtttccctt gaatgtgata ttcattcttg 360
ctttatttnc attttaccct ttgattatat gtcttgctaa ctaagacatt gttttgttta 420
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<210> 28583

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E8

<400> 28583

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<210> 28584

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C6

<400> 28584

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taaatthctaa accaggcctg ttctgttcctc cccgaacgag gactagaact agccaaaactg 180
ttagaaacga acggcctcct aggtcttggt cgtttacacc aatccagctc tgtattaaca 240
atctatgccca caatctattc ccttagacct tgttcgtthta tgagcgccta ggccaaaaag 300

gcgtgtggaa ctacagtcta ccgttcatat ccgacgttgt agatcctagc gcgaatgggt 360
gacatcacta gtcctgacat caagcttggt gcaacgacgc gttacggaca ttaagattgt 420
gtcacatatg tgc 433

<210> 28585
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-018-Q1-K1-B1
<400> 28585

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aggaaacttg cagtctacca tctgaatcga gttatgctga taaatcatca tctgaacctc 180
caagttctac tccattaagc gaccccatca acaataaggt gcatttgctc agaaccatgc 240
ttcaatggga ggagcaagtt cgtcgtggcg catctttggc agagaaaagt ctcagtgcaa 300
gcatctgcac aaaggcaatc ctgctgaag tggccataat attcttgctt aatggcaaga 360
ttattagaat gagcacttgt agcacaactg ctga 394

<210> 28586
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-018-Q1-K1-B10
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tcgaccaaac cacggctgaa aagggaatc ttggagtgcc actgctgcca ggccaaggtt 180
gctcgtttta tagcttcaag acaaacacat acaaactgaa cttcatggag agcccttctg 240
gtataaagct tatattaatt acacatccaa ggactggtga tcagcgagac tcgctaaaac 300
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caatcaagtg tgaaactttc aattaaacat ctgca 395

<210> 28587
 <211> 364
 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B11

<400> 28587

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aagtacaggt gccgcgactt cctccccgaa aactgcggct gcaagatcca ctagagactc 180
atccaattcc accatggccg cgcgccacag cggcacagcc gatggatcct tccatgttcc 240
tgcgtccgtc cgccttgcta caagcaggca gccacaccaa taagctagct cttgttggtg 300
atttgtatgt ttgattgggt gtcccttccc agtcgagatg gaataaaata aatcatcaag 360
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<210> 28588
 <211> 229
 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B2

<400> 28588

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ggcctgtggg tctggcctga tggaaaggcc gtttgtccaa aaggtcgctg ccctgttgaa 180
gccatttgc tgaacagggt gccctgtcaa tcgttgattg gattaagcc 229
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<210> 28589
 <211> 308
 <212> DNA
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<223> Clone ID: LIB3067-018-Q1-K1-B3

<400> 28589

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 gccgacccat cccccaacct ctctgtctcc ggcttaagca agcgtaccac aagtgaagga 180
 cttagagatg cctttgcgga gtttggtgaa gttttgcatg ctcgagttgt gaccgatcgt 240
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 aagggaat 308

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 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-B4

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 aggacaagat tagacctctt tggaggcatt acttccagaa caccagggtt cttatctttg 180
 ttgtggacag caatgaccgt gaccgtgttg ttgaagccag agatgagctc cacaggatgc 240
 tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt tgccaacaag caagatcttc 300
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 <223> Clone ID: LIB3067-018-Q1-K1-B5

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 tcaccagga ccttgacgac ttctctctca acgagttcgc cgcgctatcc gccgctgcag 300
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<210> 28592
 <211> 81
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-B6

 <400> 28592

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 <223> Clone ID: LIB3067-018-Q1-K1-B7

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 <223> unsure at all n locations
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<210> 28595
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 <212> DNA
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 <223> Clone ID: LIB3067-018-Q1-K1-B9
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<210> 28596
 <211> 376
 <212> DNA
 <213> Zea mays
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 aacgaagcag gatcaggcca agctggctgc ctctctatc gacagcatcg tgaacggcag 180
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tgagttgcaa acaatgaacg tgcagcagcc cgctgatgtt gccggaccca gcgagggggt 300
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<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C10

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<210> 28598

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C11

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<210> 28599

<211> 440

<212> DNA

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<223> Clone ID: LIB3067-018-Q1-K1-C12

<400> 28599

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<210> 28600

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C2

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<210> 28601

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C3

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374

<210> 28602

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C5

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<210> 28603

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A9

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ctatgtatct gcaacatcgc aagcaacagg gaggtgtct cttcagaaat tttcaagagg 180

acgtgtcagt aacatactca ggaggccgtc tcttcattca aagagtatct tttacacgac 240

ttcttgagta taaaaaactc atttgtacaa tctacctgt ctattgaatt gtcttttagaa 300

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gaacagtatg accgaagaga gcagcttaag aaaagtggc tgggaaaggt cattatgttg 360
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<210> 28605
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H3

<400> 28605

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<210> 28606
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gatccaagga aggctgagaa gatagcatct cggatgattt atgaggatag aatgcggggc 240
tcaattgatc aggttgaggc tgtgatacat tttgatgatg acacggaaga gctgcagcaa 300

tgggatcagc agattgctgg actgtgcccc gccctgaatg acatccttga cagcatgtca 360
 agcaagggaa taactattcc ggtgtgaata aatatctcat gctgtcggtc gatgggtgcat 420
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<210> 28607
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-H5
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 ttcttccact gctgtcactg ctcgcgatct atgggcggta cgctgctttt gctgcctcgc 180
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<210> 28608
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-H7
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 atggttcttc ttcttcctc agttcttcca ggccttcag gcccaattca ttttgacca 180
 ccatcttatt cctccatgac accttgatg aagctagtag tgtatacagc aggacattgt 240
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 gctgggtgtg agaaggcact gctatggtct tgggatggct ctgtggtggg tggattaagg 360
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<210> 28609
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H8

<400> 28609

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aaagagatga gaaaaaagat aatactccaa cgcattcctc atttggagct atgttgaagt 120
acatcattgc gccacttaag gacaaaagaa tgcttctcac cattcctctt atagcatatt 180
cagggtttaca acaggcattt gtatgggcgg tattcacaaa gagtattgta acaccggttc 240
ttggcatcag cggcgttggg ggagccatgg caatttatgg tgcagcagat gtagtttggt 300
ctttggttgc tggacgattg accttcggac ttcgctcagc agcatttata gtgtcgggtg 360
gagctattct tcaggccata gtctgttct ggctgcttct tttttacagt ccaatggatg 420
gact 424

<210> 28610
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H9

<400> 28610

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ttgggaacta ttgaaataaa attaaaacta catccaataa ataaaaaaag tggccgccca 120
tttttaagct ttccaatttt cctccccctt cct 153

<210> 28611
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A1

<400> 28611

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gctgtcgcga acgctccggt cctatactcc tcttgacctc gattccccga ctacctagat 120
ctcgaactcc caccatcgcc gccgccgcc atggcgaagg agttccccgt gccaccggtg 180
gtcttcacgc cgtccacccc aacacaccgt cggcaccctc ccccgggcat gggggactcc 240
cctccgcccc cgttcgcgcc gccacgtccc tccacctcat ccgtcgtcaa cccgctccct 300
ttcatgtcgt tcgatgtc 318

<210> 28612
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A10

<400> 28612

gtgacccttg tcaaaatata aaaaagataa atgaaagaaa tataaagcac aaaaaggag 60
aagagcatta caaaaggatg gataaactca agataatagg tatagaaaaa taaatatggt 120
gaggactaat gttacaacaa ttgagaaagg cgtatggcga ttttcatgtc ccaaagttaa 180
cttgctgacc tttcattgat attcggttgc acgtaggcaa tgtattagaa gttcactttc 240
agtgggtgta ttgtgacata agtgcttata ttgcgagttg aataagttaa atgtggt 297

<210> 28613
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A11

<400> 28613

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gcagcaggaa gaggtgtagc catgatcaaa gtcagttctg aaacattata tggctctcgt 120
ttgcggacct tcaagccttc cctaaagggt tgttctctca tttgagcaat ggggaatgta 180
actggtactt tacctttacg tatgtaaggc tctggcatgg ctttgccgac ctctgctgta 240
tctgcctatc tggaggtggg agaccaagat gccagaaga gtgtgtacca tatatacacc 300
atgcatgcgt gtgccatggc taccttaaga agcgtagcga ggaggattcc tcatttctgg 360

ttgacttcct ccaggaaacc aggggaagag aaggttgtct cataaatttg tacaaaaaat 420
gactatttca ccttg 435

<210> 28614
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A2

<400> 28614

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gatgaggagg cgattgggtc cgttgatagg ccaggttgtg gggctaaaat tctccgaggg 120
gatggtgcat tggaccagta cataacaaga accaatgtga tgaatttaca ggaaactaac 180
gatggtttgg ccggtgagct cgaggaagcg tacatgctgt ctagaattgt tagctagtaa 240
tttgaaaggc tggggaggaa gcgtatatgc tgagttctga ccaacttcgt acatcgtgta 300
acat 304

<210> 28615
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A3

<400> 28615

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ggagaacagg gcgcctggca tgaatcagtg gcatctccac ccaactctga tagcctgcca 180
caaggggtgga aaagagatcg cagtcgcaag aggaatatca tcctgccaac atgggtgagc 240
cgcgggcgca tcatactaaa ttactaatta cgtttctcct ctgctcgtcc accgccagtt 300
tctgtgtttc tcatagcaag tagaactaaa gcacctcaaa gatgtaaagt tatgtatgca 360
gtcgcaaata ggtaggatt ttgagcacat attgataatt tttatacatg gagaggcagt 420
atgtatgtga aataatacga g 441

<210> 28616
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-A4

 <400> 28616

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 cagctgaggt tgtggttgac tggcataaac aggacaaaaa gaggatgctc catgcagttt 180
 accgtgttgg ggatctggac cgcacaatca agtactacac agaatgcttt gggatgaaac 240
 tgctgaagaa aagggatgtt cctgatgaga agtacaccaa cgcctttctt ggctttgggc 300
 ctaaaaaaca ccacttttgc agtgaattta ccaact 336

<210> 28617
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-A5

 <400> 28617

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 cggctaggct gagtaccatc gccgaggacg acaggagat gctggcgctg tgcgggtcac 180
 cgtcggacca cggccacgcg caggcgcagg tggcggcgag gttcatgacg gaagtggcgc 240
 cgccgcaggt ggtgtcggtc atgcggcgaa ggaaggcgcc gaggagcctg gacaccatcg 300
 gcgaagacga cagggagcag cagctggcgt gcgggtcggc atctgaccac ggcctcgcga 360
 cggcgtggtc gtcgctccag aggataccga ctccac 396

<210> 28618
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-018-Q1-K1-A6

 <400> 28618

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 cctcagtgtg atcgccaccg aggttagtca ggagggacag gaatatctgg tgatggcagc 180
 tcggaactcc ccagactcga tcaaggatat tacaacaacg ttcagggtc ttggaagatt 240
 gaattggcca tcagagtatg aggattatca tgtgggcatt ccgtttggta cccttcttac 300
 agtagggggt ttcctcaact tcatgttgac tggaagtacc tctgctcttc gt 352

<210> 28619
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-A7
 <400> 28619

gaccctgctg atgcagtccc tgtaaatgca tgcgtatgat gcctacttca tggggactag 60
 ggaagttttg ctgcaagcct ctgagaatct gaatatacag tcatac 106

<210> 28620
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-018-Q1-K1-A8
 <400> 28620

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 ctggaggatg gccgcaccct tgcggattac aacatccaga aggagagcac cctccacctg 120
 gtgctccgtc tcaggggtgg tatgcagatc tttgtgaaga cactcactgg caagacaatc 180
 acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240
 gagggcatcc caccgacca gcagcgctc atcttcgccg gcaagcagct ggaggatggc 300
 cgcaccctgg cggattacaa ca 322

<210> 28621
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H11

<400> 28621

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caactgtcat ttgcactggt cctctgttca cttgtttgcc actgagttac aatacgttat 120
cagcactgct cgtgagagaa cagagagaag tcgatgttga aagggtgaag aaacaagcga 180
gaaagggaaa tgaagaacta tcgtggacgt tggcggacgg gagtcttcca tgcggaactc 240
tagcatgcac ttggactttg gacttcatgc gtctgtccgt cgacgtgagt tatctattgc 300
gaatccaaac caaaaatcaa tgtgtgtgtc tgcaccacga tgacggctac gatgtggccg 360
gatgagacct tgttcggggg gcttgtgcct gcggagccag atccgcgtcg ggaccatgcc 420
tgacca 426

<210> 28622

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F12

<400> 28622

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gccgtggtct ctatcaaaga aaccatcacc gctgccatca taccgaatgc atgggtctgca 120
ctgaatgttg gtgcacccca ttgtaaaggg tatggaatgc ttatcctaag agagtggaaa 180
gttacatgaa aaatgtaaaa acattgatgt taaaattagt caatgatata tagggaagtc 240
tccaaacat tgtgatgaag atatgagatt ggacgggtct gtccgacagt tgatctgggt 300
gacaagtgct gtgtgcttgt atgcaccact tgctgggagg atgtgggca 349

<210> 28623

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F2

<400> 28623

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tgcttagttt gtttcttcaa tgaaagatga cagttgcgtt ttacctgtc 109

<210> 28624
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F3

<400> 28624

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cgctgcgttc tctcgttctc cacctccggc atagcattcc atgcccgccc gctgtcgggtt 120
accctgatgc cccaataatc cttcattacc ctgccttttt tctgtttctg ttcgaggcgc 180
cactctcttc agggattctg tcacctgggtt atcgcttttt t 221

<210> 28625
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F4

<400> 28625

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gccctcccat acccatggcc actgaccgtc tctccacct tctccgagcg ccgacaggct 120
ctccggctgc cgccaccacc cgcgcgggtg gttgggggtc tccacggaca cagcgcgtcg 180
acgtctggca ggttgctgcg gggattcgcc ggcggttcgt gtcctgctcg agcactagct 240
ctggcgggca ggggggatta acatataagg atgccggcgt ggacatagac gccggcgccg 300
agctcgtgcg ccgcatcgcc aggatggcac ccgggattgg cggcttcggc ggtctcttcc 360
cctacaatga cgattatctt gttgctagca ccgatggggt ggggacaaag ctgaagcttg 420
ctttcgaaac tggatttcac gatacaatcg gcattga 457

<210> 28626
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F7

<400> 28626

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acacatggac acccgctat tccacgcgga gactgttcac cccgacgagc ttgaccagga 180

gcttgacacc tttccactt tacggccatg atacgtcttg cggatgcggt tcgacaggct 240

gctcatcggt gccttgagga tccagaccgt ggtcagtgac cttgctactc agggcgagcg 300

gttgacgtca gtgctgagct ggacggaccc aatgtccacc ggctgttcg ttgacctatg 360

ctttgttggc gccattttgc tgtacgttac acccttt 397

<210> 28627

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F9

<400> 28627

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cgctctaaaa ctgatggagc tagaacaaag gctgctcagg aggctttcag ggaactacag 120

agtgcccggc aggaggccct gcaaaggaaa aaggctgaaa agaagaaact catcgaggag 180

gcagatgcca aactaagcgc tgagtcactc cggaagaaaag aagaaaagga aagggtcgg 240

caaatagaaga agtctggacc caaagtgaag atgctccgct cttaacaacg tcatgattca 300

agaatctatc atatcttggc ttttgctatt cacctgttga ttagcatata gttcagtgct 360

tgctagactc atttatatcc taatcctgtg agaatagagca aaaaggatcc aggagaaaag 420

aatccttact ggcgtttcgc ttttattgga t 451

<210> 28628

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G1

<400> 28628

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gacgatggcg gctgtgctga acagcaggaa gacgccgcag gtggtggccg tgctggtggt 120
 ggtggcgctg ctggcttcgt ccgcgtcggc ggcgatcacc tgccggcagg tggggtcgtc 180
 gctggcgccg tgcattccctt acgcgacggg gagggccagc gcgctccctt cgtcgtgctg 240
 cagcggcgtc aagagcctca acagcgcggc gcggaccagc gcggaccgtc aggcggcgctg 300
 ccgctgcctc aagagcctcg ccaacagcgt caagagcgtc aacatgggca ccgtcgtcac 360
 catccccggc aagtgcggcg tcttcgtcgg attccccatc agcatgttca ccgactgcaa 420
 caagatcagc taagttacga cgaccaagct 450

<210> 28629
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-G11
 <400> 28629

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 gcaggtcaaa gccaaagcagg ttactttcca caggaagaag aatctgcagt actatgaaat 180
 ttctgccaaag agcaactaca actttgagaa acctttcctg tacctcgcaa ggaagctggc 240
 tgggtgatccg aaccttcaact ttgttgaagc tgttgctctt aagcctccgg aagttaccat 300
 cgacatggct atgcagcagc agcatgaagc tgagcttgct gcatcagctg cacaacctct 360
 tctgatgac gatgatgac tgattgagta gaaaggatca tgagtcttga acttgagcag 420
 gagttgtgcc ttgcgtgttt taagtggtc 449

<210> 28630
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-G12
 <400> 28630

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 ctgccagagc cgccgcacc atcttctccc cagcgaggaa cctcttgctc tcaaccgtct 120

tgccaggctc ttcacgtccc aggctggaag tgatgggtggc gatacccaga agccctttat 180
 tgcttttgtc ttaggtgggtc ctgggagtggt caaaggaaca cagtgcacta agattgcttc 240
 ggatttttga tttgcccatc tgagcgctgg tgatattctc cgacatgaaa tagcatctgg 300
 cagtgagaaa ggggagttga tcctagaaat cataaaggaa gggaggattg ttccgtctga 360
 gataactgtg gaactcatca gaaaagcgat ggaaatgaac aatgctaaaa gggttcttat 420
 tgatggcttc ccaaggtgtg a 441

<210> 28631
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-G2
 <400> 28631

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 ttgcggtcgc tctggtcgtg gtggtggccg cggcctgcct tgccgcgccg cggggcgccg 180
 actggccggc cgagtgtgtg gcgacgtcct gagagaccgc tgctgtgagg c 231

<210> 28632
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-017-Q1-K1-G3
 <400> 28632

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 gccagcggct atgcagcagc agatgcccat gccgccggcg cccgctgccg ccgcggcggc 120
 ggcgcccccg gcggccggca tcaactaccga gcagatccag aagtatttgg acgaaaataa 180
 gcaacttatt ttggccatcc tggaaaatca gaacttatgg aagttggctg aatgtgtctca 240
 gtatcaagct caacttcaaa agaacctctt gtacctggct gcgattgctg atgcccaccc 300
 ccagccttcg caaaaccctg caggctgccc tcagatgatg cagcctggta tagtgcttgg 360

tgcggtgcat tacatgtcac aagtaccaat gttccctnca agaaccocat taaccccaca 420
gcagatgcat gagcagcagc aacaacaa 448

<210> 28633
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G4

<400> 28633

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gttgctctgc gagattgaag cgaggtgttc ctaggagcca gaagggggcac cgcattgggtt 180
tctgatgtac gcacactaac ggtttctgaa atttgagcta gtaatctgaa tgaaatccaa 240
accgaataac cgatac 256

<210> 28634
<211> 500
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G5

<400> 28634

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cggggtaaca agctatgtct cagtcatggt gaccatgttc ggtgtgtggc acctgcacga 120
gaatctacgt ggtcagtgtg atcttagagc acgtcatgca tctcatgtcc ctgaacatag 180
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ggcggcgggc accatctgga gctgggctct tcgtcgtcct caagggttcg gctgccgatg 300
atgatgtcgt acgcgccgca taacgagcac ttgctgcagg aacagacact gaacaacgct 360
cgttcggctc ctgagaagag gcagcgggtt ccgtcggcgt ataacagatt catcaaggaa 420
gagattcgca ggatcaaggc gaacaacccc gacattagcc acaggggaag ccttagcaca 480
gcagccaaaa actgggcaca 500

<210> 28635

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G7

 <400> 28635

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 gtgggcatgt agaaacggct ataattagct acaagcaggc tctccggctg cgtcctgatt 180
 ttcctgaggc aacctgtaat ctctgcata ctctacagtg tgtctgtgac tgggaaaaca 240
 gagatggcat gtttcgagat gttgaagaaa ttattagaag gcaaataaag atgtcagtac 300
 ttccaagtgt tcaacctttc catgccattg cttatcctat tgatccattg cttgctttgg 360
 aaataagccg taaatatgcg gccactgtt ccttgattgc ctctcgtttt gggctgccgc 420
 cttttgtgca tccacctcct gttcctgtaa aagc 454

<210> 28636
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G8

 <400> 28636

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 ggagtgcctc acagccacac caagccttat gttcgctcga agggtaggaa gtttgagaag 120
 gcgagaggaa ggaggaacag caggggcttc aaggtctaag tggccactgc cttgccaatc 180
 tagtgccgtt ttgctcgtgt cagctcaata ttaccgtttt ggtgtcatag ttgtaatgtt 240
 ttagttgtcg gaatctcgtg tcattatcgg atatcgaacc aatcaaattt cgctcaaaaa 300
 ataaaaatgt ttagaata 318

<210> 28637
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-G9

<400> 28637

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gggagacgcg gtggatggac tctccaacgt gagggacatg caggcacata attttctgtc 120

taaggatgcg aagtataggc gcagaaaaac catccatcct agagcagcat aagcctgctg 180

catttgtaat atattcgaaa tccgtatttt ttttcttcac aagcactact ctatatacga 240

tgaataaaaag ggcgacaata cagtgtcatc ttgtagccac ctaagatgcg aaagagaaaa 300

gaatgccggc tgttcaatgt tctgggcttg ttctgttatt gcttgcgctc tttcatactg 360

aacaagcatg gccttttgtg t 381

<210> 28638

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H1

<400> 28638

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tgccatgtgt gatcgtctaa agcctatgct ctacacagaa ggaagctgca tcattcgcga 180

aggtgatcca gtgaatgaaa tgctcttcat catgagagga aactagaga gtaccacaac 240

aaatgggtggg caaactgggt tcttcaactc taatgttcta aaaggtggag acttctgtgg 300

tgaagagctc ctcacgtggg cccttgaccc cacttcagct tcaaattctc ctgggtcaac 360

taggacagtt aagacgttgt ctgaagtcca aacttttgct c 401

<210> 28639

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F11

<400> 28639

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ggcctgccat catatcgtag gtgagcccg cagagagcga gggagaggca tggctgctcc 120

gaagctcgcg acgctggcgc tggccgtgct cctggcggcg accgcggtgg ctcccccggc 180
cgcggtgcgc gcggcgatgt cgtgctccac cgtgtacagc acgctgatgc cgtgcctgcc 240
gttcgtccag atgggcgggg ccatgccgcc ccagccgtgc tgcggctgca tgcgcagcct 300
gcttcagcag gccacaaca ccttcgaccg ccgcaccatc tgcagctgcc tcaagaacgt 360

<210> 28640

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D6

<400> 28640

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agcgacactg agttccaagc cccctgccgc acgaccaagt acccgaggga gatccccag 120
ctcccggtgt accgcagcac cgtccctcag atggccatgg cggggttcct cccgttcagc 180
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atctacagca tcctcttcat cgtgttcata atctcatca tcgtcacggc cttegtcacg 300
gtggcgctca cctacttcca gctcgccgtc gaagaccacc aatgggtggtg gagatctgtc 360
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<210> 28641

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D7

<400> 28641

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cgctgcctct cgtttctctt ttcaataatc aagatgagcc gtgggtggtag tgccggtggt 120
ggtcaaagtt ctctgggtta tctctttgga agcggtgagc cccccaaacc agcagtggca 180
ccagctgcaa gtgtccacc tgttgagaaa ccatctgctg caaagactga tgcggccaaa 240
caggttgctg ctgggggttac cagccaaacc aattactacc acagggctga tggtcagaac 300
actggcaact tccttacgga ccgtttctca accaaggctc acgtgctcc tggcggtggc 360

tcttccttgg gctacctgtt cgggtggcaac tgatgcccggt gctgggtgcgc tcaccaaagt 420
tattcttccc tgtctgctgc gtgctatgtc tgaatc 456

<210> 28642
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D8

<400> 28642

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atgacgacac tgtttgacac tgtttgcaga gtggagtttg aaaaaggaaa taaaatacag 180
gatgagataa agaatctgct agagataacc taagtcatcc actgcaggta tgctcccaac 240
aatagcaagt actcaattca tattaaaatc caccctgtgg aattccatgg atggtggcat 300
tgtcctttct atcaacaaa gcagatcact cgtggaacgg agtgagatcg atcttgaatg 360
gcttctttcc cttggtaact cgagcaattg caattaattc ctccaacagc tcttccagat 420
tgcgcaatgg ccattgagtt gggccatcgc atgg 454

<210> 28643
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E1

<400> 28643

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gtgtgcacta aagggtccatc gggagaagaa tatgcatggt accagtgcac agtgaatggt 120
ggacgtgata gccgagctat aggagcatat gaactagcaa aagctgtgga agaattgggc 180
gcaggagaaa tacttcttaa ctgcattgat tgtgatggcc aaggttgtgg atttgacata 240
gatttggtta aaatggtttc tgatgctgtg acaatccctg tcattgagag cagtgggtgct 300
ggagctgttc aacatttttc tgaaattttt gagaaaacaa atgcttctgc tgcccttgct 360
gctggcattt tccaccggaa agagggttct atactagcag tgaaagagca tctgggtcaat 420

gctggtgtgg aagtcaaggt gtagcaggga g

451

<210> 28644

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E10

<400> 28644

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tgtaatcctt taataaagcg ttatgttttag gaagcaaagt aggggtattga atagactgca 120

actaggaata gagaaacctt gctattggga gccatatggc atgacaccaa agtataatag 180

acgatttgtt tatatgaatt gctagaatgg tagagtgggc tagtttttag ttgtgaggat 240

taagctgtct tatgttctctg ttaggccaca gggttttcatt tgactgggtac atcttttgtt 300

tgaaattaga cagcacatta gaactgtact gtgaaatgac tgtgccatga tgcccccta 360

ttcagtctaa aaataaatag ttgccccct atccagggtta aaattatagt atatttggga 420

gtctctggca ct 432

<210> 28645

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E12

<400> 28645

gatgcaacca gggtttggtg acgattggct tagccatgaa attttaatgt caaagcattc 60

tgggcgttga tattgattca ggtttaattg agactgctaa gtggaatctg cgaaggataa 120

tgcggcagga taaggtggct acaaacaacg tcaaagctca gaaatcatcg gattctcctc 180

agagctctcc agaagaattg gcatctgagt tatcgaatgg gaacaagcac caagatcttt 240

ttaaaattgt ctcttttcga cgtgaaaatt ttgtagcgag tatggatgga tgttcagaac 300

aagatgacac catactatgt ttgagtgtga caaaaaggat ccacctgaac tggggcgacg 360

atgggctagt tacgttatat gtgaagatc 389

<210> 28646

<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E2

<400> 28646

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gatgaagatc ttgaagaatc tgatgaagat tctgaggaga ggaatactgc atccctacct 120
gaagaagggg aagtagggga attcgaagat gaagaagaca atgatgactc agtacctgat 180
aacaaggatg aatcagagga aaaagagccc tggatgatcca aaagagcaga tgcaagggga 240
gctgaacaat ggtaaaaatt tagatgctga tcaattaaaa gaggctgatg ttggttgcag 300
tgatatgaaa aatgagaaag acgatgttga tatcaaacag caaggcaatg atggagaggg 360
tacggggtaa gttgaggaac ctgttcatga gatgggtggg gattgtgaag gaaaaagtac 420
gggtgacttc tctattgacc atgcaacaac tggggattaa aagc 464

<210> 28647
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E4

<400> 28647

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caagcagcaa gttaaggatg cttaaatttcc tgatttagag gttattcgca tgttgtggga 120
tgtgtcatg gaggctgttc agtggctctgg gaagaaccag cagcaaaaatt ccaatgcagc 180
acttaggcag gtgaaagctt ggactgagct tttgaatgct ttttgcacga gtggcagact 240
cgaactggaa cttatacaca aagttcagac acagtgctat gaggatgcta agctgatgaa 300
gctgtttccg gaaatcataa gaacactgta tgaccaagat gtcctagctg aagatactat 360
agtccttttg ttccgtaaag gttcaaaccg gaaaggcatg caatcttttg tg 412

<210> 28648
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E5

<400> 28648

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ggctggccct cctttccacc ccgcgggcgt actccgctgc cgctgctgcg ggcgcccttc 120
cgacgtcccc agcgccatac gggggcgccc cccacccggc gatgtcgaag acggccgagt 180
tcgtgggtctc taagggtggac gacctgatga actgggcgcg taagggtcgc atctggccca 240
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acttcgaccg gttcggcgtc atcttccgtc cgtcgccgcg ccagtcggat tgcgatgatcg 360
tcgccggcac gtcaccaaac aagatggctc cgccctccg caagggttat gaccaaattgc 420
ctgagcctat gtgggttatt t 441

<210> 28649

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E7

<400> 28649

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tgaggagttgc cctgctgtct gtcctaactc gcgtgtttct tgggaagcgg tactagcgct 120
caggtcgtgc tgaaagggct cagccagcgg caagtttgaa aggattgggt gccttggttg 180
taatggttcg acgacttcct gggagaaggg ctcatcggcg tgtttctttt tgccgtaatt 240
ttcagttttc gggtaagggg aggcggccaa ggaatttgat tttcgatcat tcctgcccta 300
tcatgcaaatt ggccaactgc ttgcgactgg ttttgcttac agcaagtttc cgtatacatt 360
tcttgttcgt aaagatcaca agttcatcga ccaaacatga agcatttgc 409

<210> 28650

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E8

<400> 28650

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 cggcacctac gccgctctca tcctcagcga cgatggcatc gccatcaccg ccgagaagat 120
 cgccacgatc gtgaaggcgg ccaacatcaa ggtcagagtc tactggccgg ccctcttcgc 180
 caagctcctg gagaagcgca acgtcgagga cctcaccctc tccgttggat ctggtggcgg 240
 agctgctcca gttgctgctg ccgcacctgc tgggtggtgct gcggctgctg ctgccccggc 300
 tgtcgaggag aagaaggaag aggccaaagga ggagtctgat gacgacatgg gcttcagcct 360
 gttcgactga ggagaccctc tcaccagcc attagcaaatt ttcacttggt ctgtcaaaga 420
 ctatcttgct ttatgttatg tctctagggc ttg 454

<210> 28651
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-E9

 <400> 28651

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 tttagaacac cagatgaagc tgatgacatc gactccaacc tacatgcctc atccgacctt 180
 gatgctggcg cctttccctc aggcaccctc agcgtcgttc catgcccagg ggcaagctgc 240
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 tgccgccttc agaggtcgac acctcgaaga acagtgaagc gtgccctcct gttgcataat 360
 tgcttcgact agcggctggt cctgctcaca ccatgcgaat tagtcgcaac tgaagcccc 420
 ctagctgttg atccatt 437

<210> 28652
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-F1

 <400> 28652

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ttggaggaag gcctacttcc gcttgagaca acaagacatg tctctatgat aactataact 120
ctttcaaaga aggagctgga cacatcatct atcggatata aatctccttt gcctgctgat 180
gaagtgaagc ctttggttaa atatgataat gatgaagatg cacactcacc tgggtggccgt 240
gtaaggggtc gtggtggtcg aggccgtggg cggggcatgg gcagaggtgg acgtggaaat 300
gggttcaatg actatgctga tgccggttgg gaagactata acgcccctgc atatatgggc 360
aatggatatg cccgtggaag aggtcgtagt tttagggg 398

<210> 28653

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D5

<400> 28653

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taatgggcta taaaataaat aaaaatcatt taaaataca ctttctatct ttaattttca 120
tttttctttt ctcttccttt atattccttt ccttctcttt ctttatcttc tattttcttt 180
ttatttacct tcattttatt aaatgttttt tttttaaaac ttttcttatt tgataattct 240
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ttttaatttt ccttcacttt ctatctctta attaatatct gcattttttt tttatttttt 360
cattttcccc tttacttttt cttaattccc tttctctttt atcttttact ttcctttttt 420
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<210> 28654

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B8

<400> 28654

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atgggaaaaat ttaataaaat aaaaata 87

<210> 28655

<211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-B9

 <400> 28655

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<210> 28656
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-C10

 <400> 28656

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 tctacgacat cggccaggac gactacctgg agttcctctg cgtggagaac ctgacgccgt 180
 tgcagctcag gtccttcacc aagaactcga gcaagacatg caagcacacc ttcagctcgc 240
 cgggtgactt gaattatccg gccatctccg cgggtcttcgc ggagcagcca tctgctgcgc 300
 tgacggtgcg tcgcaccgtg acgaacgtcg gccaccgcgc ttcgacttac catgtcaagg 360
 ttacagagtt caaaggcgca gacattgtcg tcgaaccaag caccctgcac ttcacaagct 420
 cgaaccagaa gctgacctac aaggtgacga tgacaacc 458

<210> 28657
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-C11

 <400> 28657

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 ggatcgcgtc aatgcggagc tggtcacgct cacgtacggc gccatcgtgc ggcagttgct 180

cacggatctg gaggaggtcg aggaggtcaa caagcagctc gatcagatgg gttacaacat 240
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 caaggagact gccgatgtta ttgcgaagct tggcttcaaa atgttcttgg gcgtgactgc 360
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 tc 422

<210> 28658
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C12

<400> 28658

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 ccacagagct gccgagagtg tgctgtgctt tgctcatcga ccgaccgata gatctcggca 180
 tggcggactg ggggccggtg ctgatcgggc tgggtgctctt catcctgctc tccccggggc 240
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 gcctctccat cctcgccac gccgtcatct acttcgccct cctcgccatc ttcctcctcg 360
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 gctagctgct ggcg 434

<210> 28659
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C2

<400> 28659

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 ccgtattgat aatataaact ccttgagtga gattgactgt ggggagcaga aagaagcaag 180
 caagagacca tatgcagtcg aagatactgt tatggcgaga ctgaaagttt tgaagtctcg 240

tcttgacaat ataacctctt tgagtcaagg aagcactaaa caccagctag atggaagcac 300
aaacagtgca gataatgttg atgacactgt tatttctagg ctgggaattt tggagtccca 360
tcctaataat gaagccctat tgggacagga aagcagcatg cgacaactgg atccgagaac 420
aaatagagaa gatgggattg atgctgctgt ta 452

<210> 28660

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C4

<400> 28660

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gcatgcacat ataccgcctg cctgatggt gacgatggtg agccgccaag gtgaagagtg 180
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tagttttgtc cagaaatcga aagggtgtgtt gatttgatta agttttttta ataccgtgcc 420
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<210> 28661

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C5

<400> 28661

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gacctggaag aacaggccct tcagtttata ttggactgct gtgaatctaa tatagaaaaa 180
tatacaaagt acttagaggg tggcgctggc tctccagaag ttccaatgaa tgcaaagcaa 240
gccaacagaa cattactgct aaaacagcta gcaagagatc tgtgcatcag tgaacggaga 300

atcctgtatc gcacacaata tatattgctg agaagattga tggacatgat aggcggcgaa 360
 cttagagctc tgtcactttt caacgggctg agaaaactct ttaaataaat ggatcggcta 420
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<210> 28662
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C6

<400> 28662

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 atcaccgctc tcgccttccg tccctgcgca tccgccgtgc ccattggacgg tggctggctc 180
 aacggcggcg ccacctggta cggcccagcc aagggcgctg gatccgacgg tggcgctgtg 240
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 tccatcttcc aggacggcaa gggctgcggc acctgctacc aggtgaagtg caccggacac 360
 gcgctcgctc ccggcagccc ggtgacagtg gtcattaccg acctgtgccc tgaggctgcg 420
 tgccatgtgg agcccgtgca ctttgacctg agc 453

<210> 28663
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C7

<400> 28663

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 ataaagatta gtattttt 137

<210> 28664
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C9

<400> 28664

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gatggccgcg tgcttgcctgg agcccgggga caaccaccgc tacaacatgt tcccgtcaga 120
cactcacgtc aggatgcacg atgtcgtgcg cgacgcggcg ctccggctcg cgcccggccaa 180
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tggcgcccta gcggacgcgc agccggcgctc gctgatgctc cagtgcacaa aggcctgcc 360
gaagaggatg cttcaggcga tccagcattt caccaaggct acatacctgg accttgagga 420
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<210> 28665

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D1

<400> 28665

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cgcggcgcca ccgacgacga gctcaagaag gcctaccgtc gcctagccat gaagtaccat 180
cccgataaga accctacgcc gcaggccgac accctcttca agcaggtctc cgaggcctac 240
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aaggccggcg cgccttcgcc cgccgtcttc acgcaoggcg ccggcgccgg cgtccacagg 360
ttccgcttta acacgaggag cgccgaggag atcttctccg agatattccg cggcgggttt 420
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<210> 28666

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D10

<400> 28666

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gccacgcgtc cgcccacgcg tccgcaccgg tgatctcttc tgccaaggcc ttccacgagc 120

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gcgacccacg gcacggcaag tacatggctt gctgcctgat gtaccgcggc gacgtggtgc 240

ccaaggacgt gaacgccgcg gtggccacca tcaagacgaa gcgcaccatc cagttcgtgg 300

actggtgccc gacgggggttc aagtgcggca tcaactacca ggcgccaaca gtggtgccgg 360

gtgccgacct cgccaagggtg cagcgtgccg tgtgcatgat ctccaactgc accagcgtcg 420

tgc 423

<210> 28667

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D11

<400> 28667

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cgcctgatct gacacgcgat ctctcggtc gcccgaatgg ccgacaagga gaagttggag 120

tctgaagagg agtacgagag cgacctcgac gacgcacccc tctccgcgtt gcggcgccgg 180

gacgctgcga gcgatgacga ggacgaggat gaggacggag ggatgccctt gaggcggagg 240

aaggctggat ccgacgcaga ttccgacggg cagggcgccg ccgaggtgta cgacgaggat 300

ggcgcgtacg aagaaagcga ggagtacgat gaatacgagt gcgagaagga actcatggag 360

aagtccacaa tcgaagagac aatgtctgaa cttatggatg gtaagattcc tatgctgcaa 420

gttgaaga 428

<210> 28668

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-017-Q1-K1-D12

<400> 28668

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaagg acaaaaaata cttaaaaaaa aaaaaaaagg 120
 ggcgccgtgt ttctaggtcc caagcttcct aacgcgtcct tgcaacttat tttttttgct 180
 atggtgtccc caa 193

<210> 28669
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D2

<400> 28669

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 tccacagacc agaatgcatt ttcccgata atacattgaa gaaagttctc atgcaagcct 180
 ctttgtgggg gaaaatgaag tcttaggat gttctgaaag tagtgactac ccatcatgtc 240
 ttttgtaaca ttacttaatg taagcatatc tgatataggt atgcaaaggc tccaatagct 300
 tccgtctgct gtatgggaaa gaaaggagac 330

<210> 28670
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B7

<400> 28670

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 agaagacagt tttctccaaa tgtaggtct ttgacatctt tctataacac ttcagcttaa 120
 atatgtactt ttttctttta atttgcgctg aacttgatgc taccttggtg acaagagcag 180
 atgtacgttt agtgcgatca ccaaggctgt ccgtatccca cggctgggct gttattttct 240
 tgtaatactg ctttcagatg taatgactat tcatttcttt ttcttggtac ggaataccgg 300
 tagttggatg gaaatcggca acagcattag ccatttcgga atagtgagcg cccaaattgt 360
 cttcgttttg ctgctttttg ccctcacgaa tatatacact agagatatct tgggtctcgtc 420

ttggcaacta acccgacgga aagtta

446

<210> 28671

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D3

<400> 28671

cggacgcgtg gggtactcca cccgtttgtg ttggattgac atggaccatc atatgaaaac 60

tgtttttttt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaagggatg tagtaataaa agtacaaaag attattttaa 180

catttcatga aaaattaaaa tattactaat atgttaatta aattaaataa at 232

<210> 28672

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D4

<400> 28672

aaaaaaaaaa atgtgaaaaa caataaaaac atttaaaaac atacatataa aaaaaaaaaa 60

aaggggaaac aggcggtata aaaaaatata aaaaccaaat taaaggcata ctc 113

<210> 28673

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H7

<400> 28673

ggccatgttt gctggtccct gtggttatct caaacgcacg catgctctat tatagctagt 60

catcactata tatatacttg gggtttgtgta ttggttagctc tagttctgca ggcgtatacg 120

gcgtttaatt cgacctatgt tatcgagcgc gcgatatatg tgccgatata tccagtatat 180

cttgaggagg gactagtggg tatgtgtagt actggactaa ataccctgca tatgcatggt 240

ttgccagctc gctatgaatg tc 262

<210> 28674
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H8

<400> 28674

cccacgcgtc cgcccacgcg tccgaaagcg tcgcgtcctt aacctgcgtg ttggtaggcg 60
gtgttaggtg tgtggagacc ggccggcact atagagaact aaatcgaatg atggtgtact 120
cagtacgtac tgacgtgtat gagtttgtgt tgatgtggac aacaataaag gcatgtgtac 180
gcgtttgtta aaaaatat 198

<210> 28675
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H9

<400> 28675

cccacgcgtc cgggtcccct gttctgatcg ttctgttcct cacagcagca tccatatgct 60
ggggagcctt tgaagcaagc tgcccctcgt gcacaggaga ctgccgtgca catcgagtac 120
gttgaccgtc cegtggacgc cgaccc 146

<210> 28676
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A10

<400> 28676

cggacgcgtg ggcgagcgcg tgggtccaag cctgcgacac ctaagccgac cccgcctacg 60
gacactccaa gccctaagcc accggctacc aagcctccca cgcccaagcc gaccccgcca 120
acgtacaccc cttcgccaaa gcctccgaca cccaagccga ccccgccgac gtacacccct 180
tctcccaagc cttcgacgcc caagccgacc ccgccgacgt aactccaag cccaagcct 240
tccacacacc cgacgcccga gccgacccca ccgacgtaca ccccttcccc aaagccttcg 300

acgccaagc cgacctcacc gacgtacacc tcttcccaa agcctgcgac acccaagccg 360
accgcaccga ctgacactcc cacaccgaag ccgtcgggtca ccaagccgcc cacctacact 420
ccgacgcogt cgggtgtctta cac 443

<210> 28677
<211> 477
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-A11
<400> 28677

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ggcaataact gtgtggaacg gtttgatcat cactgtccat gggtcggcca gtgcatagga 120
ctgcgtaatt atcgggttctt ctatatgttt gtattctcga cgacattgct ctgcctctat 180
gtatttgcoct tctgttgggt gtatgtgatac aagattagag ctgctgagca atcgtcagtt 240
tggaaggcct tgctgaagac accagcatca gttgctctga ttatctactg atttctctgt 300
gtatgggtttg tgggtgggttt atctgtcttc catttatacc tgatgagcac taaccagaca 360
acatatgaga atttcagata tcgctatgat cggcgcgata acccatataa caaagggtgtt 420
ctgaacagat ttctagagat attctgcact ggtatcccc cttcgaagaa aatttttc 477

<210> 28678
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-A2
<400> 28678

cggacgcgtg gggtgccaac ttgttctcgg tgcaggggcc atgcaggtgt ctggacttaa 60
gtgaattaca tctaagcatt tagctctggc gagtcaaatac attagtttta tacattcttt 120
aattccagat atcagacgag tgcttttctt gaaaatacct gaagcacgca aacagttgct 180
aatgtctgag ctggatagag tggctcagga ctacaagatc catcgcgatg agattcacag 240
taaacttgtc cagatcatga gagagaggct gcttgcaaata cttagaaaaat taccctaaat 300
tgtggaaggc tggaatgccc cacaagataa tgatgtgcag ccgagtcaat ttgctaaagc 360

tggtacaaag gaagttacct atttgcaccg tatectttct caaacactgc ttg 413

<210> 28679
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A3

<400> 28679

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tacggcgaga tggtcgtcct cgtccgcgac ggcgtcgagt tccacgtcga caagatcccg 120
tcagctcctg gaggtcatgt gaaaacaaaa ggcacaattt acctgtccaa ttttaaggatg 180
gggtttgtgg ccagcaagcc tgttggaac ttctttgctt tggttttgcc actgtggttt 240
gtgcatgggtg agaagttcaa tcagcccata tttcactgcc acaacatctc tggattcgtt 300
gaaccagtcg ttccagacca tcagaacagg gccctgtact caacttacac ctttcagatc 360
ctgttcaaag aatgccgctg tggaactttc ggttctt 397

<210> 28680
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A5

<400> 28680

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tgtggaatac taaaaaaaaa caaagtac 88

<210> 28681
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A8

<400> 28681

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tggccgtcca ccatcccagc gtgatggctg ggaggaccgc gcctgcccc tcccctcctt 120

ctctctcacg ccctactccc tcgccgcccc ttcattcccag atcccgtcgc tgattctggc 180
gagagcaggg gaagagtatg atgatgacta ttcgtgacag tgaattcctg ggaggtgggg 240
gagaaaagga ttgcgttctg tggaggttgt tgtgcttggt agaaggattt gttctctctc 300
ttttttcttt cttgtttctt tggccgtgtt tcagtgcacac tgttgatgga tcccagtgc 360
ttgcccgttt gatgcatcat ggtggtggtg gtgatgatgg atgacatagt ggtagggggg 420
gtgtgctagt tggtaatggg gtattt 446

<210> 28682
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-B1
<400> 28682

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ggcggtccc acatcaacct taaggtaag ggacaggatg gcaatgaggt gttctttcgc 120
ataaagaggt ccaccagct gaagaagctg atgaacgctt attgtgaccg ccagtctgtg 180
gacatgaatg ccattgcgtt cctgtttgat ggccgcaggc ttcgcggcga gcagaccct 240
gatgagctgg agatggagga cggcgacgag atcgatgcca tgcttcacca gaccggaagc 300
agcgttcta gcaccaccta aaagcatcag tcgcggagct ttgttttgct ctccgccctg 360
cgtagtagtt aacaaaatgg aaaaagtctt ttaaggaac ttgtgatgct ctggcttctt 420
gtgccattgc 430

<210> 28683
<211> 193
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-017-Q1-K1-B10
<400> 28683

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taacagcaaa ccaagatgga aaaagctcta tgaaggctta aaagagagca cgtctcatca 120
tgaatggcct attcatttta ttttgtgtat gtttcacttg ccattgctttc tgatgcatgt 180

tattccaaaa ttg

193

<210> 28684

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B11

<400> 28684

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ggaaaaaaga ttgtctttga gagtgagtga gagagcaagc aggttgctag tagctgctgg 120
tagagagagc tagctgttac agccgaccag gtagctagat agctagccat ggagccgggg 180
tcgacgcccc cgaacgggtc ggcgccggcg acgccggca cgcggcgcc gctgttctcc 240
agcggcgggc cgcgggtgga ctgctgtcg tacgagcgca agtcgatgcc gcggtgcaag 300
tgcccgccgc tgccggcggt ggaggggtgg ggcgtggcga cgcacacctg cgtcgtcgag 360
atccccgcgc cggacgtctc gtcaccocgc aagctgggcg ctgagttcgt gggcacgttc 420
attctcatct tctt 434

<210> 28685

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H5

<400> 28685

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aggaaaaaaaa aaaataaaaa aataataaaa taataaaaaa taaaaaatTT aaaaataata 120
ataaaaaata taaaaatata aaaataaaaa aatgggctac ccctttaaat ttcccatgtt 180
tacattccca tattttcaac 200

<210> 28686

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B2

<400> 28686

ttcccggtcg accacgcgtt cgccacgcgt tcgccacgcg ttgccacgc gttcggaccc 60

acgcg 65

<210> 28687

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B3

<400> 28687

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aa 52

<210> 28688

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B5

<400> 28688

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ggagcgccca acctcccaat cgctgcccgc ctgcccgacg cactccgccc cctgctgtca 120

ggcagcaatt ccaagaggga tactgttccg cttatcgagg ggcccacccc aaggcagacc 180

aacggctatg actgcggtgt ctatgtcatg gccatcgcca gggctttgtg cgcttggtgg 240

aagaatggcc aggaccaacg gggaggcgat tggttccagg cggtgaggag cggggtggac 300

gcccacagcg tcgaggccat gaggaccgac ttgctgcagc taatcaacac tctcatccaa 360

gaaaaggcca atgccaaatt cgacacccat gggcgacact gaccaggt ca 412

<210> 28689

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B6

<400> 28689

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tgcattgggaa attagttcat ttttccttgg gaaattgaaa atcccataga aaaatgtggt 120
 tgacaaacta gcctttatgt gtgtatggct agttttctca attcgtgagt gcgtggtagt 180
 accaataagc aataagacgc agagggatcg atcaaaaaaa aaaataaaaa aaaaaataaa 240
 aaaaaaata aaaaacaaaa taaaatataa taaaattaaa aaatttttaa aaatatataa 300
 tct 303

<210> 28690
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-F1
 <400> 28690

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 gaaagacaac gatgcgagcc agtggaaaga ggaaaacaag gaactgttca tgccactgaa 120
 tgaacaggtc aaagatccta aggagccagg ctcggttga gatgccctgg aggagaagga 180
 agacctgttt tggcgtcaag ggttggttaat cattcagacc atatatcatg gtgccgtgga 240
 agctcttccg tcaagcttaa ccttgcgga gaaattcttg gagatactaa acagtgttga 300
 cttggcacat tctgatgagt taaaactaga agtcctggat gaccttaaga gagatttctc 360
 ttatagcgag gactact 377

<210> 28691
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-016-Q1-K1-F11
 <400> 28691

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 cgctaccaag gtcgagatcg tcgagatcga cctcaccgag gaagacgctg gctcctcggc 180
 ccacggctcc tccccctcgt ccccatcgat cgaggtggtt gggatccggc gcctggagga 240

ggccatccac ggcgtcatgg tgcgccgcgc cgctcccgat tggctgcctt tcgtgcctgg 300
 aggggtcctac tgggtgcccc cgctgcgcct nccgcacgag gtcaccgcgt ttgtcggccg 360
 gatcgc 366

<210> 28692
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-F3
 <400> 28692

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 ccttgagcgc gcagcctgcy ccacgcggga agcagcctcc tcctgcgctc cctcgatca 180
 aactcccga gttgggtcac tggggcgta tgcagcctcc tcagcacggg agcgcttcgg 240
 cgtcgtcgtc cgcgtcggcg tctcgccccg tctacagctt catgccggct ggtccggttc 300
 gcattgacag accccggatc gggatcaagg ccgacga 337

<210> 28693
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-F4
 <400> 28693

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 cgtgcttctt tcgtgtgcca catctgaagg aggatgaaac cccaccctaa ggaggaactc 180
 ctggatgggc agcaatttca agtgctcgaa ttggaccttg gttcgggttg tt 232

<210> 28694
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-F6

<400> 28694

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agcttacttc aacaccataa aacgaacagc caagtatctg tgccctgctg acatagtacc 120

accatacatt gaagtggatc taagttagtt ggatgtagga cagaaattgc tgatgcgtga 180

tctgaaagtt catcctgcgt tgaagctgct tcattcgcca gatcagccca tttgtaacgt 240

taccggatca aggtcttcag aatagaataa gggaaaataa cctgcttctt tgtatgagct 300

gttttgagca caataagggt atggtttctt acttgagtga attatgtgct tacttgttct 360

actgttagga tgaattgggt ccagagacac ctattttaac ttatggatgg gatcttttga 420

acctgtatat tcttct 436

<210> 28695

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F7

<400> 28695

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tcaaagccga gagccaattc aacatagagg gcctctgtgc agcctgggtc caaaatctgc 120

agccacagca acatctgcag gtatcagatt tgtatgacaa ggatttgcaa aggatgtcct 180

tgtcttttga gaatatctag acagcatgtt tcagcatgca tggaacagag aaatagcaga 240

aagccgagtc aatgaagcct aaataaatac aatatttctt cacagattca tttgaaggct 300

atgttgatgt gtgttttacg taagtacatt ct 332

<210> 28696

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F8

<400> 28696

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atcaatcgcc acgccggcgg ccggtcgatc gcaccacccc cgccgcctgt tgtagccgc 180
aagatcgccg gctaccaaac gcggtgcatt gcattccccc ggtatattct cagatcagac 240
ctgaattcgt cttcctctca agcgagaggg ggaaaaaag acctgtaata tcatttggat 300
cgccattata tttgtagctg attatatata aatatataaa atatcattcc tcgtattcct 360
gtc 363

<210> 28697
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F9

<400> 28697

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cctagtttct ctgtcgattc ctattcgtcg tctcttcagg gctggtgctc actgctgcgc 120
cgttctgtta accgaaacaa gaactctgtg tattcctgta ccgagctgtg catgtttttt 180
tctttccatc gtggagaatt taagttatta tccgtttgct gcaaaaaaaaa aaaataatat 240
ttattttatt 249

<210> 28698
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G1

<400> 28698

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cctctacaac atccactcct tcaaacactc gggtttggcg aacaagaaga ctgtgacgat 180
ccagccagct gcaaaggact cggctgtggt cctctctact accaagacca agaagcagaa 240
cgcacctgcg aagctcagcc acaagtctgt gatgcgcaag gagttccgca agatggccaa 300
ggctgtgaaa aaccaagtta gtgacaacta ctacaggcct gatctgacca agccagcttc 360
tgctaggcta aactcgggtg accgcagtct tcaagttgcc aagtccggtg tcaaagagaa 420

gaacag 426

<210> 28699
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G11

<400> 28699

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cggcaatagg aggtcataat gggaagccaa agcagaaggt ctcatacatg gcggaacggg 120
ttgttggtac tggttcgttt ggtatagttt tccaggc 157

<210> 28700
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G12

<400> 28700

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ggctgcttac agtacgtagt accatggcta agaaagtggc cactctgctg gcccataacc 120
ttcttttctt cgactacgtc gactcatgca gctgcaggtg cagcggat 168

<210> 28701
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G2

<400> 28701

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gctgggctcc cttcgcgcgc ccgactgcaa ggagggccta taaactacga cccagggctg 120
gggctgtctt cgtccatcac agctggcgta ccatggcagg atatactggt tgcggtagaa 180
tatcacagta gcagctaaac tagtacttct ggaggttcaa acctgacggg cgtcttctat 240
tctaattttc cattcatcgg ttcatttatt tatgatg 277

<210> 28702
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-G3

 <400> 28702

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 aagacgcctg ctctcgccg atcgatacga tggccgtctt ctccgacctc cacaccgccg 120
 acggcctcaa gtcctcgag gtcacctcg ccggcaaaac ctatgtgtct ggtgactcca 180
 ttactaagga tgacattaag gtcttcgccg cggtgccgtc gaagcctggc gctgagtttc 240
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 aggctgttgg tgtaaactcg cctgcgggat cagctcctgc ggcagctgct cctgcgggatg 360
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<210> 28703
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-G8

 <400> 28703

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 tctgctctcc cggggccaga gatccaaaca aatctctgcy ttgggggttct ccgggggttcc 180
 ttgcgctgga gggaggtttc gttctcgccg gccatggttt ggctgagaag aaacagcagc 240
 atattgatgc gaaatctctg agctttatga agatcgccac tcacctgcgc cggttctggt 300
 ttcttcactc cttcttggtc gttttcctct actgggggta tgt 343

<210> 28704
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-E9

<400> 28704

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tcggcctctg aagaagccac agttcagcgc tactttctct atctcgcacc ggatcttcag 120

tgtcgcgctg ggagttgcc acatatccgt cccactcgac accaagttca gcctgatgtt 180

tggcgtttga gagcgatttg ctgcgatctt atgaggatct gcatttcccc gt 232

<210> 28705

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H10

<400> 28705

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ggatgtctga ttttgatcac aaagcattgc tag 93

<210> 28706

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-016-Q1-K1-H11

<400> 28706

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tgggtcctct tgcgatagaa ggcctcctg ctgtagagca aaatcctgcc caaggattga 120

atgctaata aagtcagct ggtgacttgg cacttgctac cttgatgat cagtccaact 180

cagttcagcc aattgtcaac gtcgaggaga agtttcatat tttgtgcaca aaagatagtg 240

gggtgctgta cgaggatcct tacatccaga ttggcttgaa agcngagtgg cgtgcccac 300

atgggagact tgttcttttc ttgggtacaa aaatacttca gcccttacgt cagtgcgggc 360

gctgatttgg cttctagtca tttgaaatgg aaccttctgc agtcctgata ctattcct 418

<210> 28707

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H2

<400> 28707

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tcgcccgtgc caccgtatgg ggaaatcaac gaatagggtg tctatggtct tgtgcctgat 180
c 181

<210> 28708

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H3

<400> 28708

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atctaaacaa aagcaaattc tcaaggttgt tgtcacggaa gttcttggtg gtgggaagtt 120
ttatgttcag acaatgggtg accagagggt ggcttcaatt caacagcagc ttgcatcttt 180
gaaacttaaa gatgcgccgg tcattggtgc ttttaatcct gtgaaggag agatagtcct 240
cgcacaatth agcgthttaca aactcctgga acagagctat gattgttaat ggacctcgtt 300
ctgttgaatc tccggacgac aagtttgaag tattctatat tg 342

<210> 28709

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B9

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ataataataa taataataat aataataata ataataataa taataataat aataataata 120
ataaactttg cagggaaacaa gacctggcc ggtagctgca tctgctgcat tagggacacg 180
catgagatga tcaacgtggc ggcca 205

<210> 28710
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C1

 <400> 28710

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 gggcgcgcca agggcggcaa gggtttgggc aaggcgggcc ccaagcgcaa cctaagggtc 120
 ttcgcgacaa cattcaaggc att 143

<210> 28711
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C10

 <400> 28711

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 cgcatcaaag ttcttcaagc tcaggatgat ctagtaaaca aaatgaaaga cgatgcatg 180
 aaggaactcc tccttgtcag ccacaaccac catgaatata agaacctttt gaaagatcta 240
 attattcaag gcttgctccg ttgaaagag ccagctgtat tgc 283

<210> 28712
 <211> 58
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C11

 <400> 28712

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<210> 28713
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-C12

<400> 28713
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 ctgccgtggg atacataccc tgcgaatata actagaccat gcttgcttcc gtctaa 116

<210> 28714
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C2

<400> 28714
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 taaaggcatg aagtggcacc actgattgag caagcttttc aaatacattt tgaggaacag 120
 aa 122

<210> 28715
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C4

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 aggttcacct gatgatacag gagataaagt gtgtgctggt gcatgggctt ctaacattgg 180
 cagaccatat gatattatcg catttgcgac ctgcaaagga attgcaatct ggcatatatg 240
 tttgaacgct gattc 255

<210> 28716
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C6

<400> 28716
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agaaggcggtt gattttcggg tcgccaccta gtactagtaa gacatgcagc ttcaattgga 120
 ggaccagcaa ctaccataca aactcaaata gcgctggatg catgaacttc tgtgcca 177

<210> 28717
 <211> 195
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-C8
 <400> 28717

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 agtctgctca atgcccttca gcttcgactt cgagcagcat gcattatctg aagaacagtt 180
 gaaggatctg atcta 195

<210> 28718
 <211> 161
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-C9
 <400> 28718

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 gcgcgcctcg aggaccggtt accgatcact agcagcatgc acagtgtcat ggaatcctca 120
 ttgacttacc gacagatcca tatacatcta gtactgggtg a 161

<210> 28719
 <211> 130
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-D10
 <400> 28719

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 caacgggggg atcatgatgt atctatagca gcctatcaca caccaccatg caacaccgcc 120
 accgcgccac 130

<210> 28720
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-D12

 <400> 28720

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 gcaggcgacg catgcgcggg cacgacggct cgtggccccg actacgtatt cagctaaccg 180
 gtctacgtct tcggcccttc tctgtcgcc cgattgagtc gctgctgcaa ctgctaactt 240
 taccttggtc tagcttacca cagtctttcg gaaagggtgct atcaa 285

<210> 28721
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-D2

 <400> 28721

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<210> 28722
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-D5

 <400> 28722

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 gcgcctaaaa gctttaacgg ataggacact aatttattgt acattgtaac tcaaattggtt 120
 ctaactcaaa tagtggattt tggacaacct attgtcacta gttatagata tatttacagg 180
 atgtcaaaca tctttcacc c aatcacacta ttaaacctca aaaaaacacc caaagccctt 240
 aaccatttcc cttgcctcgg tottgaatgt atttgcctt aaaattacag caaacaatca 300

atcccaagtt ttcaaaatga caggtcatat taattatatt catgaccctg ctcttttate 360
tagttgtatt ggcataatc gatgattcag atgcagaatt atctgaagtt gtgattgatg 420
ttgtttcaca tg 432

<210> 28723
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D7

<400> 28723

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<210> 28724
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B7

<400> 28724

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tagatcgagc gccca 74

<210> 28725
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D8

<400> 28725

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ggcagcagca gcaggcgcgg tcgccgccag gctacccgac ggcggctgca ggcttggagc 180
aagagcaggg aggcaggaag ggacgacgcc cggagaagac gac 223

<210> 28726
<211> 451

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E1

<400> 28726

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 agctcacccc accccagagc atcaagaagc tggtaatcaa gaactacaaa ggcgtaaagt 180
 ttccaaaatg gataaaaggt cccaagctag gagactcctt cccagcctt gtgttttttg 240
 atcttgaaaa ctgcatgtca tgtactaaac tgccttcact tggcctcctg agtcaactcc 300
 agtccctgca aatctcaaat gcagactcag tcatcaccat cggttcagaa ttccttgga 360
 ccaactgtact ttcacagcc actccattcc ccaagcttga gggtttaaag ctcaaaaacc 420
 tgaataaaac cttgaaagtg ggctttaact g 451

<210> 28727
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E11

<400> 28727

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 acgcgctgaa gctgggctg tgcgccaact tgctgaacgg gctgatcaac gcgaccctgg 120
 ggacgccgcc caggacgccg tgctgcacgc tgattcaggg gctggcgg 168

<210> 28728
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E12

<400> 28728

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 tatgatttag atgcggggat cctttaataa agcgttatgt ttaggaagca aagtagggta 120
 tcgaatagac tgcaactcgg aatagagaaa ccttgctatt ggtagccata ttgcatgaca 180

ccaaagtata atacactatc gtgttgtagt aattgctaga atggtatggt gggctagtc 239

<210> 28729

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E2

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ggccaaggag atcgttgccct tcgctcccct cgctcgtcttc agcaaaactt cctgcccttt 120

ctgcgtccgt gtgaagcagt tgttcgagaa gctcggagca tgctacaagg ccattgagtt 180

ggataaggaa agtgatggag ctgagctcca gaatgccctg aaggagtgga ctggacagaa 240

gactgtccca aatgtcttca tcaatgggaa gcctattggc tgctgtgatg atactatggc 300

actgaaccat tgttgggaaa gctggttcct cttgctgact gatgc 345

<210> 28730

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E3

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gaagccggga tgtatgccat tcgtgcccgc aggaaaacgg tgacagagaa ggattttctc 120

gatgctgtca ataaggatcat caagggtac cagaaattca gtgcaacacc caagtatatg 180

gtgtacaact agagagtgtc ttcattggaat atgttgattt tagaactccg ggatcttttc 240

ggtgattgtg tcatcgtgag gttctatgca aggattgttg tttgttttga aatctggatc 300

cccatggatt gcattctgta ccacatgttt ttaagacaag gtttttcccc tt 352

<210> 28731

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E4

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taataagagg cagcagatca agcaaggatc aaatccccac tgtgcaacta ctactgctga 180
agcacatgga tcaaaatgga ccaagtattt ggacacgagc cgttttggtg ggaggaaatg 240
cttcgatacc tctggtctgc actggactga acatgatgaa tctgccacta ctgaggctac 300
tactgacata atggtggatg atgaggttca ccctgatttc atctgatctc atgttggtt 359

<210> 28732

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E5

<400> 28732

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gttgcgttaa acgatcgaca aatcgatcgg tagaatgaat taatgggcca gccagcagag 180
tgtgatctca ctatctgatg agtgatagga tgtactccct ctgtccggag atccagtatt 240
aaattaaatc caccagtgga aacaataaat acatcaacga gctagcatag acgatccaca 300
ctacacaagc gaagcgaatc tgctgctgat atcgtcggcg acgtgcatct tatctagcag 360
tgttggcctt tcccggaact c 381

<210> 28733

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E6

<400> 28733

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gggtcctaga aaaaatctaa aata 84

<210> 28734
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-E7

 <400> 28734

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 caacacgttc atagaagaca actcgttgcc atcattctca aaggctgtta atcagcgcca 120
 cgctgacctt gtctacttct ggcagaagta ccggaattg gcagacagct tacatgagaa 180
 aaatgaagct cggagggagt tgcttgaagt gatggccac aggtctcatg ttgacagcag 240
 tgttgagctc attggaagcc ttctctttg 269

<210> 28735
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-E8

 <400> 28735

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 ggcagcgagg ggcgaggggg gctaatactg taggcggagg aggaaccgag ccgatggggc 180
 agcagtcgct gatctacgcg ttcgtggcgc ggggcaccgt ggtgctggcc gagtacaccg 240
 agttcaccgg caactttacc accattcgcg tccagtgcct gc 282

<210> 28736
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-H2

 <400> 28736

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 aaagagggct ccgccgtcc cggggaagag cgcgccattg ccgccgccg gctgactggg 180

gaagatggtt gtccaggagt tcacagttga tctcaacaag cccctgttt tccaggtttg 240
cca 243

<210> 28737
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H4

<400> 28737

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cccacaggtt cgcgatctgc gccggccgcg ctcacctatc tacttgctgc gttgttccgt 180
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tcgtgcgctg ggctcaagac cccggctcct gcgtctttct gcacccggat ggtgg 355

<210> 28738
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H5

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tatcttttat ttgctcttgt ttggaattgg tggaggcttt tgaactgtaa tctggtgcca 180
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gctggatatg gagctaacca gtgttcagct ggtgggtgag ctgaccagca ctttcgtttc 300
ggctgttctt tetgatgtca gcgttgtag cctaggttgg ccatcggtat ttatattact 360
aatagcatct atgctaccgc ttgaggtttt catggat 397

<210> 28739
<211> 58

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-H6
 <400> 28739
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<210> 28740
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-H7
 <400> 28740
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 aaggatggga aggaggttaag ccgagtgggtt ggggccaaga aggacgagct tgagaggaag 120
 atccggatgt tcacgtcatc ttctcatcg taaactcctg tggttcgcct gggacggagt 180
 tgctgaagtg aaatggttcc cttctctgaa tgctgtatat aaatatttaa t 231

<210> 28741
 <211> 192
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-H8
 <400> 28741
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 ctgatacctc agcgtcttga gtgctgataa cgtgattagg ccgtttgctg agaagcacta 180
 cgccgatctg gt 192

<210> 28742
 <211> 401
 <212> DNA
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 <223> Clone ID: LIB3067-016-Q1-K1-A11
 <400> 28742

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gaggacttcg gattaatcca aacttgata acaatgggaa agtgtgtctt agcctgttgg 120
gtacctggga tggtagaggt tgtgagaagt ggaatccagc tcaatcgaca atgctgcaag 180
ttcttgtctc cattcaagct ctgattttga atgacaagcc atattacaac gagccaggat 240
atgagtccta tgccaacact ccgaatggag agcggttggc tttggactat aatgacaaca 300
cctttctgca ctcatgcaag actatgttat actcacttcg gaagccttca tagcaccttg 360
cagatcttgt tgctggccac tttcgggtgc atgggcacac g 401

<210> 28743
<211> 97
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-016-Q1-K1-A12
<400> 28743

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ccttcgttta acaacgtgta gacggggaga accgtgg 97

<210> 28744
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-016-Q1-K1-A3
<400> 28744

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acttctaattg cccctcaaca tgggtactttt cacattatgc aacgcatgcg actgaaagtt 180
cgcttcatcc tagactattc tacacttcat aactcactc ctattcatga tcatgtagtc 240
aacaatctca aagccggtta ctagagagaa ttttt 275

<210> 28745
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A5

<400> 28745

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ccttagcatt tcatgcaaag atgttgctgg agagaattgc ttcgatgaaa atagtgtctac 180
tgtcctctgg gctggtgttc ttagcgatat acacctggaa gttccaccgt tgcaagaggt 240
ggtacatcct ttctccatgt atttccttgt accgggtgac tactcgctcc aagctgcttc 300
tggtataatc gatgccacag acgttcttcg tgctcgtgca aagggtgaa tcaccagatg 360
aacctatact gggttccgga ttccattcc atatccgggt agtcggttca gcattagcag 420
ttcttttagt tactc 435

<210> 28746

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A6

<400> 28746

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gagcgcaccag tcgcccacca ggatgaagtt tgttgctgcc tacctgcttg ctgtcctcgc 120
tggaactcc agcccctctg ccgaggactt gacagccatt ctggagtcag ttggctgtta 180
agttgacaat gattagatgg aaactccttc ttcccaact tgat 224

<210> 28747

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A7

<400> 28747

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gcgtacagta cgtagtacca tggcgaagaa agtggccact ctgctggccc tcaacctcct 120
cttcttcgcc ttcgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180

cggcggtggc ggtggcggtg gaggatctgg tgggtggtgg ggtggaagct gtgggggtgg 240
gag 243

<210> 28748
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A8

<400> 28748

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gaaccgcccc atcccctact ggatccgcat gcgcacggac aacaccatca ggtacaacgc 180
caagcgcagg cactggcgcc gcaccaagct cggcttctga gcgcgcggat cggccggctc 240
ctgcgtcgga attctagggt ctctaccttt cctttggttt tatcgatgtc tcttgtgttt 300
ctgtaagcta gcaaacagtt tcagaaa 327

<210> 28749
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A9

<400> 28749

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tacggcggag ggactagtgg aggaggcacc ctattgcggg gaaccagctt cgccacgcca 120
caccgggct cggcat 136

<210> 28750
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B1

<400> 28750

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gatgttttac tgcgatcagg gcttggttcc atggcgcaaa aagtggccac tcgaggctgc 120
 tttgaccttc tcttgtgagc cttcgccgac tcatgcggct gcaggtgcgg cggatcctgc 180
 gctatcccag ctgcggccta cactatctac tagagctgaa gcaatcctta agtgtatcaa 240
 cgggtcatct gttacatatt tgagtctttg ctattgatgg tttatctgcc aagtattttt 300
 tatttggttt ttttgtggtt actaggattt cttttttaa tgtattttat tttgatttct 360
 ttaatatattt ttttcc 376

<210> 28751
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-B10
 <400> 28751

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 ggagtgaat ggcttcaaat gtaaccttcc agtcaaggta tgtgctaata tagaaactta 180
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<210> 28752
 <211> 159
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-B11
 <400> 28752

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 tatgaaaaga gagcgaagat gatacaaaaa aagggggggg 159

<210> 28753
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-B12

<400> 28753

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catccgcaac ttggcagcgg cgcataactg aggcaagatc acacaccgtt tgaccacaaa 120
tggcagtggc aggctccatg ttcccagggc tagcgacctg gttctcaatg tagtgacatt 180
tgtgatggat ctaggggtct ctttgtcgag tcatcccata aattaagt 228

<210> 28754

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B2

<400> 28754

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agcagcaagg ggagcgggga gcggaacaaa aaggcaaccc acggaaccga gagacgcacg 120
agcagcacia caaaaaagca gagagacaga caacacgcag aaacaacagg caaacagaaa 180
caacgagagc g 191

<210> 28755

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B3

<400> 28755

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aaagacagag aaaggggagc tatctgttta tgtgaaaaat ttcgaaattc tcacaaaatc 180
attactccca ctaccagata agtatcatgg attaactgat gtggacaaac gttatcgta 240
aaggatatgtt gacatgattg caaacccata ggtcgctgat gtattccgaa ctagggcaaa 300
agtggtttct gaaattcgca agacaatggg aatcatttgg gtttattgaa atcgaaactt 360
cagttctaca gggagcaaca agtttgt 387

<210> 28756
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-B4

 <400> 28756

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 gctcatgctg gtgcgcaagg agatcgtcga cttccacggc gagatggtgc tgctcgagaa 180
 ctacagcgcc cttaactaca caggattggt taagattctc aagaaatatg acaagagAAC 240
 tggagccctg atccggctgc ctttcattca aaaagtctct tagtagcctt tctttaccac 300
 tgatcttctg tattagcttg 320

<210> 28757
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-H11

 <400> 28757

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 ggatctattg atgcctaagt ttcgtggtgt ctactactat gtctacttta tgttgtccta 180
 atggttgtaa gtatcttggg agtcactttg ctttgctaata gtctcgtgta agacttattt 240
 ggtcaatggt cggttattaa cttattacca tgaaagcact ttttctgctg ccctaataagg 300
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 gttaaattctc atggtttaat ttttttat 388

<210> 28758
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-B5

 <400> 28758

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 aatggacttg aaatcgctac tataaaccga gcgatgggta ttgggtcccct gctgcagcct 180
 acactaaata ccagtgtga agcaatcctg aagttaatca atgggtcatc gtctacatat 240
 cccaattttt gctttggatg gggttaatgtc aaaggatttt gcccttgccc atatccttgc 300
 atacgagggt ccctcatcaa atggaaggta ctgcatgggt gaaagagttt gtcactactt 360
 ataactgggt aacatttttc tcaacatgta tcctaccttt tcttttttga ctagtgtgta 420
 tattttatttt ctttt 435

<210> 28759
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-F2

 <400> 28759

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 gaccggcacc gtgcaagtgt tcttctccta gcaagcttta ggaaagggga aaatgctaaa 120
 agaaaaagca agacaaaatc gttgtcctc ccaaaaggaa tgatccgtga aaatggggaa 180
 ttgttcatga tagtccgttc tctgcttctt ttttttttcc tcttcctctc tcagttgttt 240
 attataatcc ttctattagt atataagtcg atctcttcta gtactgctag gaataggatt 300
 agtgtcctgc tttattttcc cttggtttct tctggaaagc ata 343

<210> 28760
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-F3

 <400> 28760

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ttcgcctactt cctgcacgct gttgggcaat gttagaacaa cgcaggcctt ccagacagcg 240
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acctccaaga aactggatgt cttcgccatg gctgtatata aggtgaagct tgtctggcct 360
gaatgtgaag agcacgagtt tgatgctcca gatgactcct acattcttga cg 412

<210> 28761
<211> 231
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-F5
<400> 28761

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ggtagttttg tccagaaatc gaatgggtgtg tttatttgat ttagttttct taattaccgt 120
gccccgtggt aattaattat gtacttactt atatatatat atacattact ccgaagagga 180
tggagcactt tgtataatag aggaatgggtg atcgacttta cgggtgtggg c 231

<210> 28762
<211> 297
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-F6
<400> 28762

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cgaattcctt cctatcgaat tcctatagta aaattcctat aggatagaac gtacacaggg 120
tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
taatgagttg atattaatta aatatctgtt tttttagatt tttgcaaagg tttcatttac 240
gcctaattca tatcgagttg accctgacgt tgtgagaaaa ctgtaattca tgagttg 297

<210> 28763
<211> 341
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-F7

<400> 28763

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gaatacagac gcacccatcg tggatagagc ctgtcttgca caagtttctt tgtccccggt 120
gccagtctat aaaacaataa gagaaactaa gtgttaagtc atggtgtgtg tgctgtggaa 180
aagaacaacc cacatacact taaggtaa atatatattgt ttagaagtac atttgtaatt 240
gtatcagaac caaacaacta tgcagttctg tttgaatgga ttccaggaca aaaaggaaaa 300
tttaaatttc aggaccaaac agccaacaat tttaggacat a 341

<210> 28764

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F8

<400> 28764

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gccgagttcg tcgccacctt cctcttcctc tacatcacca tcctcaccgt catgggcgctc 120
tccaagtcca cctccaagtg cgctaccgctc ggtatccagg gcatcgctg gtccttcgga 180
ggaatgatct tcgcgctcgt ctactgcacc gccggcatct ccggaggaca catcaaccca 240
gctgtgactt tcgggctggt cttagccagg aagctgtccc tgactagggc cctcttctac 300
attatcatgc aatgcctgtg tgccatctgt ggagctggag tgggtgaaggg ctttcagcat 360
ggactttaca tgggcaactg tttgttgccc aatgttgctg cacctggct 409

<210> 28765

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F9

<400> 28765

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gtaaaggagg aacacggatg agtt 84

<210> 28766
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G1

 <400> 28766

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 gtgcaaggct ttcgagacag tactttcacc aaggccttta ttcaagctga cagacatgga 360
 aattgatgaa tgcgaggaga ctactatgca tgatgtgaac aacattt 407

<210> 28767
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G10

 <400> 28767

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 atacgagaag acactcatgg tatctagctc ccagatcgaa atgtagccga cgcacaaggt 180
 tgatgggtga acaatgggta tagataatgt gcttgagcag gctctgtatt gagcttacca 240
 acatgtcctt atacatggac gaaagggtatt cagcgatgtc tccacattag acgaggattt 300
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<210> 28768
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-G11

 <400> 28768

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cataatcaac attgtataaa ttctcacaga cgaaacgaga accacacacg tgaaattttc 180
cgatgggagt tgtgggttct tgtatcgagg ggcaggtcca ggatttaaag gatgggcatt 240
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<210> 28769

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G2

<400> 28769

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<210> 28770

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G3

<400> 28770

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tg 62

<210> 28771

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G4

<400> 28771

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tcgagaagga cgccgttctt tgaataccat gcctttcgta tacactttgg actctggtgg 180
catggttttt ttttatactc ggtgtttttg tctggatagc cacttgtatt ggtccttaaa 240
atttggtttg cctaaatgct tttatcatgt gggtttattt aactggcctg ttaatggtta 300
ccgttctgtg acttgtgtct ttcccacttt atatctgata ct 342

<210> 28772

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G5

<400> 28772

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caaggccagt ccagatccgg cggctgcggc tctggctgcg gtggaggctg cggcagtggc 180
agcatggtcg ctgaaggctc caacggcggg cacgccaagt ccggcggctg tggctgcagt 240
tgcggtggcc gaagtggctg ctgccgctga tgctgttgca gtggttgcag caccttgtcc 300
aacgcatgat ctgtgttgag tggttgcatt tg 332

<210> 28773

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G6

<400> 28773

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atgcaagcaa ggatatctac gagaaacacg taatctcata tactgtactc tgtgtaatct 180

acggcttgac cttggagaag ataagatgac tctggagttc ttactagaac gggtggccaa 240
 tgcacatatt gatcactttg acag 264

<210> 28774
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-G7
 <400> 28774

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 gtaatttatt tgttatccgt gttgagccgt tgattccttt cttttgttct tcttcttttc 180
 accatttggtt tttctttcat ccgatatcca tattccattc ggctttctat t 231

<210> 28775
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-G8
 <400> 28775

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<210> 28776
 <211> 192
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-F11
 <400> 28776

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cggatttgca acggttatga cacagtttga gccactgtgt ctggtactgt taactcgaaa 180
cctatcttct ag 192

<210> 28777
<211> 257
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-G9
<400> 28777

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acgaattcta ataaaaaagt tgtcaactac aaagattaat aacttttgaa gttctacaac 180
ttttattttg acactttttt catcatccga tgtaatttgc aaatatttga attttaaatt 240
tgacatactt attttca 257

<210> 28778
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-H1
<400> 28778

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cccgagcggg agcagccgga ggagggcttg atgatcatct tgctccgtct gatgcgttga 180
tgaactgtcc gttgtggctt aaccagatgc ttcctgaaaa ccagatatt tgacggacga 240
agtgcccaaa ccacagacac ttggacctgt acatacccat t 281

<210> 28779
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-H10

<400> 28779

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cgcttgcccg tcgtgaacca agccgggttt tgtaaatggt ggttcgagtt taaacccatg 180
gtgtggtcgg atcgggtgat gagactagtc gagaaatatg aagggggaaa aaacttgtag 240
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<210> 28780

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D10

<400> 28780

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gaggcctacc tcgtctgcct gtccgaggac accaatcctt tgtccatcca ctccatagcgc 180
gtcaccatta tgcccaaaga cattcagctt gctcgctgca tccgttgcca gcgctcgttt 240
tgcttttttg cgccctgcct ctttttgctc ttgaggattg tggttgtctt tttttattct 300
ttatcttggt gtttctttta gtcttttggt aattatctat tttttttccg gttttatatt 360
tttttgttct tttttctttt ttgttttttc ttttttttg ttcttttggt tt 412

<210> 28781

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D11

<400> 28781

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ttttccctt ctaagttcct agcatgactg tttgggtcag atcagatcag ctggggaaaa 120
caaaactggt ggggttcctg gcatctttgg tcgtagcagt cagttgattt aatgaactcc 180

gaaaaatgtc tcatggagga aaatTTTTtg tgcctgtgt agcgct

226

<210> 28782

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D2

<400> 28782

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ataaatgttt atataaaata taataattat aaaaaaaaaa attaaattaa ataaaaaata 120
aatttaatta ta 132

<210> 28783

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D3

<400> 28783

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tgtctctcta gctattgtgg tattttaccat tgtgccttgt gatgctctgc tttatgtcca 180
tcgtcatggt cgtttggtta tgttttatta tctttttatt tttctttgtt ttttcttttt 240
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tttttttttt attatttttt tatttttttt tatttttttt ttttttattt ttatatattct 360
ttttctttat tatatttatt ttttaatttc ttattttatt ctttttatta ttttttttta 420
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<210> 28784

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D4

<400> 28784

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 gctcgatttc aagaacgcct tctgcacgg cgccctcacc gagaccgtct actgctgtca 120
 gccggtgggg ttctgtggact cctctcgccc tgacatggtc tgccgactca acaggtccct 180
 ctacggcctc aagcaggccc tttgggcgtg gcactcctga cttgctacgt tcttggtgac 240
 cctgggcttc gtggaggcct agtcagacat gtctttgttc tgttccatt atggaacaga 300
 gactgtctac ttgctttctt acgtggatga cattgtcctt actgtcttca tgtatgtctt 360
 ttttttctgt cttggt 376

<210> 28785
 <211> 246
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D5
 <400> 28785

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 attgcaggcg tagtacgtac ccagcagcag ctagcactag cagtccatcg gagcgacgat 120
 ggtgagaagg acggtgctgg cggcgctgct ggtggccgcc gccctcgccg gcggcgcgcg 180
 ggcgagctc aaggaggggt tctacgacta ctctgctca caggcggaga agatcgtcta 240
 ggacta 246

<210> 28786
 <211> 176
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D7
 <400> 28786

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 gagaattttc tggagtcttc gactcgagca gggttccgat ggcgctgcaa tggatgatcc 120
 tggcgtgcgt ggtggcgggtg gaagctgctg tggctgcgct ggtcacgctt ccggtg 176

<210> 28787
 <211> 251

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D8
 <400> 28787
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 agcaattgta cgacattgcc tgctgactat taatatttat tttattttat tattatattt 180
 tttttttttt atattatttt tttttttttt tttttatttt atattttttt tttttttttt 240
 tttttatatt t 251

<210> 28788
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-D9
 <400> 28788
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 atgatacaat agatgaggta ggcgaggac atgatccatt catggatttg aaagcgagat 180
 tcatggactt taaacagaga aactatgtgg aaaaattttc aaattaccaa accctggctg 240
 agcagcaaac accaaagtgc atggtggtt 269

<210> 28789
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-E10
 <400> 28789
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 agtaccagct ctcttgaag actgataggg aaaagaagcg tgagatgtat tttcccatgc 120
 ggaagtagcg tatcaaggcc tatgattagt gaaagaacag cttttatcct atcaagtttc 180
 tgtccataag tttcttgtgt ttgatttacc tttcatctat ctgttattct atggtatggt 240

taaatcta atgttttatt ttttcacttt tatatatattt ttttttttta gttttttttt 300
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<210> 28790
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-E3
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 cgtgcaaattg gcaccattg ctttcgatca ttaattcagc ttttatgctt gcttctgttt 180
 tattgtgttt ttttgagttt ttgtgcgatt gtgcttttct tgtgtgttta ttatagactg 240
 ttcttagttt attttcgtga atttttaatt actttttggc tcttgtgatt ctaatatatt 300
 ttttcttttt cttttttttt tctttt 325

<210> 28791
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-E4
 <400> 28791

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 cgtgcatcgc atattagaaa ggcaatgcatt gtcttgtttc cttcgttttc cccatgaaga 180
 aaccgtacta gctgtagctg ctgaatcgtt gagtccccct gctgccactc ttatcttcat 240
 ttgtgtcatt gaaactccgt gctttctctg ctgtgtgaaa tctgacggct ttgctgtgtt 300
 tggacactga ttgcagtt 318

<210> 28792
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E5

<400> 28792

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tatgatgtac tgagaacttt gaagattatt ctgagcaccg gctcaaattt ttttctctgc 120
tccgagcaat tgtcacccat tgctttcaag cattaattca gctttcaagc cagcaattga 180
agcttgtgat cgattcgatg aattgggctg ttagacatac cgtgagaaat atctctgaga 240
ctggccttag tctatagttg gaaattttga agaactttgt tgcttttagga attcataatt 300
cattattact atattctctt tttgacattt tatctagata tttttgctgt ttttgatcag 360
ctcattttta taaattttgt gtttttagtt 389

<210> 28793

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-014-Q1-K1-E6

<400> 28793

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ttaaagtatt gctattgtac ttaaagttat actgataagt cgtacgctct gtacttgaat 180
gagatctttt gggtgcgatc attatgtatg ttcaaagtaa tagatggact ccatcttggt 240
tatttttagtg ttcgctagca gccttaatac ctaatcaaat taggttcata ttcgcttttt 300
agtttatcat gctcattcaa aattagctac caccttttgg aatgctatta ttcttttaac 360
taattgatat gatttctggt ttttgtgtgt tactgtatgt tttttgctat agttttatcc 420
taacttttct attaatctat tttattttta 450

<210> 28794

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E8

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gctctaaggc atggacggca aggacctgga ccgtctcatc atgatggctct acaaggctca 120
atcgcgcta tgacttttta g 141

<210> 28795
<211> 287
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-E9

<400> 28795
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atgaatggaa ggaggatatt cttccagaga tactggatgg tcacaatgtt tgccgttttt 120
ctggatccag atattcctgt aagggtgtgat tagtttgatt gggtgtaagg gctttttctt 180
gtttaacatg ctgcatatat ttctttctat tatttatggg tattatcttt ttattacct 240
taaggagatt ttttctcaaa tttttatggt ttaggcatta ttttttt 287

<210> 28796
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-F1

<400> 28796
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gatgtctgca ctgcactcta caatgctagt ctatctactt accaaattat tgtgaaatag 180
tagtatatat ggtcgtgatg gttgtatctc tttttggatt ggatgtatgt caagctgggtg 240
gggtgctagtt cgtctgtctg gacttggttac tagttaatat ctcataatac atatataaaa 300
gtggatctta aaaaaaataa ttttt 325

<210> 28797
<211> 406
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D1

<400> 28797

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tatttgctga aacatggtat ggttaaggac ggtaaggagg ttgcacttgt tcaaagtggc 180
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ggaacgcaca tagtattctg attggtggag gacatcgttt cttctagcaa accgcaaggt 300
cttgttacaa tgaaacttca ctggtagtaa gtactgggat tggtgagata gttggtgctg 360
agctagtgtt gtgattcttt tttttacctg tgcactagtg ctgttt 406

<210> 28798

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F10

<400> 28798

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acaatttgcg tgtgaataaa tgtgtgccag ttcctctgtt gaaagagaaa attgctactg 120
taactggaat attgtctgaa cagcaacgct tgatttgctg tgggagagtc ttgaaggatg 180
atgaactctt gtctgcttat catgtcgaag atgggcatac attacatctt gttgttagac 240
atccaggcca gtcagctaca tttggaaatg cagcaaccga agcttacaca tctaattctg 300
gccgtcgtca tgggccca gttggcaagaa gtgtatt 337

<210> 28799

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A7

<400> 28799

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aaccgtccta gtcccaaaca cactgaagag aaacaacgca tatttgccga atctgtcttg 120
atgagactgg aggagaaatg aagggacgtc aagccgtaca agtgcacttc gttaggggtt 180
tacatgcagc taccttgtaa ttcggttggc ttccagaaaa aaaaatgtga gcctggacac 240
gtcaagtgac cacctcagtt ttgttgtaaa tttgttacta gtttgatagg attattagta 300
tgtacttattc atgaaaagaa ttctcagtat gtgttttggc tgcccattca atgataggtc 360
agtgattaac accataataa ttattatttt gttgttttta ttcttatttt attttttttt 420
tatt 424

<210> 28800

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A8

<400> 28800

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tgaggggtcaa gaagggtcaa gcgatgtcgt caaggatcag tctgaatgtg ggttacatct 120
gtttcagttg atattcgata caagtttctt cctcttgaga acttatttga gtctgtgcct 180
tgtagttggc tatggattct tgccttactt aatcactgtg gattat 226

<210> 28801

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A9

<400> 28801

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taaagtcaaa gagatacaca agacgaggct gactccagag ctaagatgaa cgagcatgca 120
aatacacctg aataattctc agcaaaaatt gtatctgcat atacacggcc ag 172

<210> 28802

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B1

<400> 28802

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aactgcgcga agaaagtggc cgatgcggct gtgaaagccg gcaggaccat catcgactgg 180
gacagcatgg ccaagttgct cgttaccgac taggctcgca aggagtctgc cgtccttcga 240
cgcgctttct atgacgtcaa ccaccatctt cagaccaagt tctttcatga accccagccg 300
attgaatggg agttctacat aaat 324

<210> 28803

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B10

<400> 28803

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cctatgggga gggtatatgt gcaataattg tgcctaagga ggatgcaaag aaaaaggctg 120
gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180
ttgctccata caagattcca acaagactat acttgtggga ttctcttcct cggaatgcc 240
tgggaaaggt taacaagaag gagctgtaga aattgttagg agcttagcca tgtgtataga 300
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<210> 28804

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B11

<400> 28804

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gaaaagatta cacaagata gaataggtgc tccatatttt agggagcctg gcgaattccc 180

aaagctagaa gagtctttct ttgcaaatcc ctgctggc tgtatatgtg agcaacatag 240
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atttgtccaa tgaattcac 379

<210> 28805
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-B2
<400> 28805

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gttatgtgtg ttgtcaagaa cattcatttt gctctttctg gctgaacttg gttacttgtc 300
ttt 303

<210> 28806
<211> 211
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-B3
<400> 28806

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ctggtcgagg ctgcggctct ggcagcggcg ctgctgctgc tggctgctgg ggccgggacg 180
gcttctgctg ctgtgagctg ctgcgaggtg a 211

<210> 28807
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B4

<400> 28807

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aaggggttgt ctggaatgga tgttgtgtac aaggtggatg ctgatggcct ttat 114

<210> 28808

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B6

<400> 28808

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aagatgggtc gcaggggaaga tgatcacagc aacttttatg accccacaac agtatgaaat 180
caagttcccg agctagtga cagatgcatg attaatatgg acgtagtgtc ttgggctcgg 240
tgggtgctgg catttctata ttttagcggt ttgagcttgt gtcaacttat tactggaggt 300
tattataaaa aaaaactagt ggaggaaaat ttagtggaag ctagtgtatc gggtaatggc 360
ttacgataaa tgggtgtaagg aatgagtttc tagtcctgtg ggtagtgct tgaattgaaa 420
ctgtactgtg tattggaatt ttacctgta gtgctttttc 460

<210> 28809

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B9

<400> 28809

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tgtgaagggt agccattccg ttctgtttg tgaaaagggt aaaaagcta gctttcactt 180
cacacatgag agaagaagct aaggagaaga ggtacaggct gctgtgggtg ggttcgatgg 240
taggtgagac atcacaatgc tatgttagat atgggggtcta ttccatct 288

<210> 28810
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C10

 <400> 28810

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 gccgcctaaa ttataatggt cggagagtaa acagtcgatt aaactttgac atgggtgagcg 180
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 catctgcatt tagcctcctt tt 262

<210> 28811
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C11

 <400> 28811

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 gcgggctccc gcggccgtcc tgcgcacgct accgaggacg acgacagaga ggagggcgag 180
 atcgtcgctt acgccccctc gcctgccctt ctgctcgtgc acccgctcga gcactcgtgg 240
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<210> 28812
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C12

 <400> 28812

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cctgaggacg caaagatcgt ggaggtcatc gaggccgagt tccacaagct tggcgtgcat 180
 aacgggtccg ccaatggcat tgaccaagca tagcaccttt gtctaataag gccagcctga 240
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<210> 28813

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-C2

<400> 28813

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 tgctgaacct gttgatcaga agaattacct tgaggaacgt tgcaagccgc aatgtgtaaa 180
 aacattgtat gattatgaga aatgcgtcaa gagagtcgag agcgactgaa gtgggcagaa 240
 gcactgcacc ggccaatact tcgactactg gtcatgcgtt gacaagtgtg ttgcacaaaa 300
 gctcttcgac aaactgaaat gataacggaa cgcaactttg aaggcgcggc tccttttagg 360
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<210> 28814

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-C3

<400> 28814

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 caacccccgc gcggaagggtg cccctccgga agctgctgcg tgcggcgtcg gtcgcctgcg 180
 ggggtgcagtt cggctgggcg ctgcagctgt cgttgctgac cccgtacgtg caggagctgg 240
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<210> 28815

<211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C6

 <400> 28815

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 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C7

 <400> 28816

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 tggagatcgc gctacggttt caacctggct gtccttctga tcaccatcgt caccctggaa 180
 gtctgtctct ggacgaggtg gaaaaacagc accggttcca cgggggcata ttagctactt 240
 accgattttt ataggtgttt gtgatggcca gtgaatgagg ttcgtatact tttgttcgaa 300
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 ttggtgca 368

<210> 28817
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-A6

 <400> 28817

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 tgacgaggcg tcgctgctgc ggatgctgat caagctgatc ggctcgcggc ggacgctgga 180
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 gcaaggtcat cgcattctac gtgtgcctcg agtactact 279

<210> 28818
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-C8

 <400> 28818

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 tcatgctttt ataggaagtc cctctcggcc caacactaga ttgatataca gagaatttcc 180
 actgtggcct cccgaaccaa gccctcttcc actgctacca ccttccttcg ttgtaccggg 240
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 aatattattt tttatatatt tttttttt 327

<210> 28819
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H10

 <400> 28819

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 agagacactc gtcccccgta ccgtggcgga tgcagacgtg gtggttacag gaatgttgag 180
 tttgctgatg actctgagag gccaccacgg agaaactatg agcgccacag cgggactggc 240
 catggctatg agatgaagcg tgatggcgca tggcgaggga actggggcac tgccactgat 300
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 gagaaacaa 369

<210> 28820
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H11

<400> 28820

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gcgctacgac accctgcgcc tgccgcacaa ggtcgtcgcg cgggaggccg acggctccgt 180

caagttcggc cagggcgagg gctccgccta cctcttcgac cgggacatct acaccgacgg 240

caggatctcc gtgcagggca tcgacgccgt gctcttcgcg cgggacgacg ccaaggccac 300

gcagaccgcc gacccaaca ggaagcctcc cgccatcgtc acccacaaga agaagatcaa 360

gctccggcga ggtagtacc tacctacctt cagatctgga ctttgctcc tttgtgtcct 420

actcgtacca ttacagattg ctcaaaagta tcccacc 457

<210> 28821

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H12

<400> 28821

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actagcaaca cttatgccac gaactacact actgactcca gctctttacc gagtgtttta 180

ccagatgctg agccagcggg tgattttgccg cttggacggg ccaagtctcg tgcctagact 240

gaatcattca ttgtattgat ccatgcgatg taacctgcgg gacaagctat cgaactggag 300

gcctgagtga acgcctgagc tcgcgcttca actcattcta aaaca 345

<210> 28822

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H2

<400> 28822

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cacataataa agaagtagat catgcaccca ctagtgatca cttggtctag tgtcccttcg 180
 ttcaatgtcg tcgtcgtcgt cgggtacctt acgtgacatg ctgtagcacg tacgcttgca 240
 gaggcagcacc gtaatgtcct tgggtatgct ttgctggctc tatgaatttg tctttgtgtt 300
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<210> 28823
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H5
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 agcccgctgc cgagaaggcg ccggccggga agaagcccaa ggcggagaag cgtgtcccag 180
 caggcaagtc cgccggcaag gagggcggcg agggaaagag gggccggaag aagggaaga 240
 agagcgtgga gacctacaag atctacatct tcaaggtgct gaagcaggtg caccgggaca 300
 tcggcatctt ctctaaagcc atgtccatca tgaacttctt catcaacgac atctttgaga 360
 agctcgccgc cgaggccggc aagctcggc ggtacaacaa gaagcccacc atcaccttcc 420
 gtgagatcca gacc 434

<210> 28824
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H6
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 atgtatactg ccacatggcc aagagagggt agaaaaatag cgtctgattt actggctaac 180
 ccagttcaag ttaacattgg aaacactgat cagctagttg caaataagtc aattacacag 240
 catgtggaag ttatcccaca tatggagaaa tcaagacgac ttgatcagat cttgcgctca 300

caagatcctg gatcaaaaag cataatatatt tgctccacta agaagatgtg tgatcagtta 360
gctcgaaacc tatcacggca gtatcgtgct tctgctattc aaggtgataa atcacaggct 420
gagagggatt ctgtgttgaa t 441

<210> 28825
<211> 332
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-H7
<400> 28825

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caatggacca cctgattttc gaagtcaaac tcagtaccaa gggcatgtaa atccagctgg 180
gcaaggtcaa ggttacaaca accccaaga gcgtatcaac ttctcgcaag ggcagggagg 240
aggttttagg cctgggtggc cttcagcacc tgtgtcttat ggccaaccat cagcacctgg 300
atcttatggg caacctaata cacttggttaa ct 332

<210> 28826
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-013-Q1-K1-H8
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tgaagaaagg gagctgaagc ggaagcaagc ccgcgtcaga gccacgttcg tgcaggacct 180
gctgctctct actctattcg gcgactgatg acgaaccaga gcgagcctgg tattatcact 240
ggaaggtgca gagttgatgt gggcgtgatg tatctttcta agttattgta agccggtctc 300
tgtcttcaca actgacgatc tgtgtgtggg acgcaccacg cagcaagtc gcggttgtgc 360
gtgtacgtct gaactctgga gcattgggtt gtt 393

<210> 28827

<211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-H9

 <400> 28827

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 tgagtttgga agagctgctg ccaccaaacc aacaaaagta ttctacaata atcatgctta 180
 gatcatctct ggtgatatca accctcctga ttgctctatc tgtgcctttc tttggacttg 240
 tgatggcctt ggttggttct ttgtttgcc a tgcttgtagac ctacattttg ccttgcgctt 300
 gttttttggc gatcctcaag acaaaaagttg ggt 333

<210> 28828
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-A1

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 tattcccaga agcgtataca gcaactcatt gttgctccat tacactatgt tcaagagaaa 180
 ttgccaacaa tagagtcaac agagacaacc aaggaggatg caagtgcag ggaatctgat 240
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 aggcaaaac 309

<210> 28829
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-014-Q1-K1-A11

 <400> 28829

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ccatgaagga accaggaacc ggtgggtatg gctatgggac gaaaaatgac aagaataagg 180
atgtggatac aatagcttcg gacttcatca agctgaagca catggcttgg gcacttcata 240
agagcacaac catgtaccaa ctttctacct aaaggtgtca atagttcaag atgttgatac 300
tatatactta tgcttgtctc tgtatagtct a 331

<210> 28830
<211> 92
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-A12
<400> 28830

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gctgcacgct gatccagggg ctggcagacc tt 92

<210> 28831
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-014-Q1-K1-A2
<400> 28831

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tatttatgtt atttattcct ctatttggtt tatttattta tttttttttt gttttaattt 420
tatttattga tctttttttt tatttttttt tttttaatt 459

<210> 28832
<211> 384
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A3

<400> 28832

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ggcgactccg cgggcaccgt cacggccttc tacctgtcgt cgcagaactc ggagcacgac 180

gagatcgact tcgagttcct gggcaaccgg acggggcagc cctacattct gcagaccaac 240

gtgttcaccg gcggcaaggc cgaccgcgag cagcggatct acctctggtt cgatcccacc 300

aaggagtccc actcctactt cgtcctctgg aacctttaca tgatcgcggtt ctctgtggac 360

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<210> 28833

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A4

<400> 28833

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gtacttatgt ttcatacttg gaatgaatgt tcatggaaca aaaatattca aaataatata 180

tttttaatat tatatttaac tattttaatt atttatttta attttttttt tttttctttt 240

ttttatttct tttttttatt tttattcttt tttttatttt tttttatttg tttttcttaa 300

tattttattta tttttttttt tttttattat atatttctaa ctcttttttt ttatttggtta 360

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<212> DNA

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<210> 28835

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H1

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tgacttcttg gtcgacattg ttcccaggga tgagatgaag gaggacggaa ttgggcttcc 180

tagggctggt ctgccacca tgggagcccc agctgatgca tatccatact actacatgcc 240

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ttatttgtgg caggagctct agcaacagca tgagcaagct cctgaagagc agcaatctgc 360

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<210> 28836

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F12

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tctcctccct cctccatata tactccacgt ccgcgccgc cagacgagga gccgggccc 180

tgggcttcgc gccgtcggc ggcgggagat tccgggtacc gtcgaattcc ggtccgccc 240

cgttcgtgtt ggacgaggtc gcgagggctg ccggcggggt tcggaggagg gcgttcacgc 300

gcgcggcgag ttgggactcg gagaaatcgc cgtacgagac gcttgagctg ggtagggatg 360

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442

<210> 28837

<211> 295

<212> DNA

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cgtatcatct gaaatgggac aaacaaatta catcaggagg taggttgctt tatttttggt 180

cttttctata aggatggcaa gtttacttac ttatgccacc accatatgga gtaagtgggt 240

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<210> 28838

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F3

<400> 28838

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tgggcgagca acttcgcctt cctcgactat tacaagaagg tctacggccg cgccgagccc 120

ctccccaagt ggtccgacgc cgacgtcgac gagttcatcg cctccgaccc ggtctacggg 180

cccagctca aggcctgcg ggagtcgagg aagttcgcgc ttgtcggggc ctcgcccggc 240

gccgtccacc tcggcggcgt cgcgctcaag tactccaagg cgccgcacgg cgtcttgctg 300

gcgaccgggt tcggggc 317

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F4

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 tgaagaaact ggccttattg gttgatgatg gagatgactt tgactgtcct atttgccttt 360
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<210> 28840
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-F5

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<210> 28841
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-F6

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aagaatggtc tcgcaatgca agactcgatg gtacgaatga aaacgatgcg cttggattcc 240
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<210> 28842
 <211> 354
 <212> DNA
 <213> Zea mays
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 cctgccttcg ctctctctct ttctgtaccg gtgctgcaga tgtgaggctg ttgagatgga 180
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 ggagggtcatc ttggattctg gatttcatat cgttaaagaa accgaggtcc agcttgatgc 300
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<210> 28843
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 <223> Clone ID: LIB3067-013-Q1-K1-G1
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 tgtatctcca gtactacatc aacgagaagg gggacaaggt ctacaccacc aagaaggagt 180
 cacctcttgg ggtgccaacg cagtctgctc accagctcg gttctcacca gatgacaagt 240
 actctcgcca gcgatacctg ttgaagaaga gatttggact tctgccaacg cagaatccag 300
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<210> 28844

<211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-G10

 <400> 28844

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 aggcagcaag ggagcacagc tccgtaagca catagatgcc actctcggca gtggaaacct 180
 tagggaagct gtgaggttgc ctcttgaga ggatatcaat gaatggcttg ctgtgaatac 240
 cgtggatttc ttaaccaag ttaatatgct gtatggcacg ctcacagaat tctgcacacc 300
 tgagagctgc ccaacaatga cagctggccc aaagtatgaa tacagatggg ctgatggtgt 360
 gcagataaag aaacccatag aggtatcagc accaaaatat atggagtatc tgatggattg 420
 gattgaaag 429

<210> 28845
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-G11

 <400> 28845

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 cccgccgagc aggcgcacgg agccaacgcc ggactggaaa ttgccatcag gctgctagag 180
 cccatcaagg agcagttccc cactctatcc tacgctgact tctaccagct tgctggagtc 240
 gtggcagtcg aggtaaccgg cggacctgat gtccccttcc accctgggag gcaggacaag 300
 cctgagcctc caccggaagg ccgccttccct gatgccaccc aaggttctga tcaccttagg 360
 caggttttct ccacacagat gggtttgagc gaccaggaca ttgttgcgct ttctgggtgg 420
 cacaccctgt gaagatgc 438

<210> 28846
 <211> 329
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G12

<400> 28846

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cggtgccctc ggcgccgaga cacggtaggc gggggccggc caccgcctac cgccacccga 120

cggagaagtg atctgagtgt tcgtcgagct gtagtcaggt gattcgattc cacgcacgtt 180

ccattttaca cggatgaatct tcagtcgagc ttgtagtttc ttgggtttgt gattgtaaag 240

atgggtggttg tgcttgtgcc cgtacgtact gtagatgcag caacgtgtac ctacacaatt 300

tacatttaca gagaaaatgc atgctggag 329

<210> 28847

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G2

<400> 28847

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gacccatcat tggagacaga tcctgatttt gactcggata ttcgagatga tgtccaagat 180

gagtgttcca agtttgggtgc agtgaagcat atttttgttg acaaaaatac tgcacgcttt 240

gtgtatctgc agttcgatag cgtgactgca gcatcaaatg cccaaaatgc cctttacgga 300

agatggttcg ctgggaagat tatt 324

<210> 28848

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G3

<400> 28848

cactttacgt aaacgaaata gcatgttaaa catcagacca actgaactgt ttttgatttt 60

ccgtatcaaa agtatcgagg tacaaaaagg aactagtcta cttttgtgca gcaccatctg 120

ttagcttccg agagataagc tgcgcatttt cgatctatct ataggcat 168

<210> 28849
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-G5
 <400> 28849

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 caaaagcctg ctgtctactg gttgggatgt ctttagaatc cgctccttta gttattgaaa 180
 cagttatgac ggcattgtct tatggtcagc tatacagctt tgacttgatt acaagcttaa 240
 tgga 244

<210> 28850
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-013-Q1-K1-G7
 <400> 28850

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 ttgattgata tccaaggac tcaggctgcc ccacctatgg caatgggtcca gccacagttg 180
 cttactgcag cacctgccac atacaatgac cctgggtgcca tgcttgctgg attgctatga 240
 gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaacatc 300
 tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggct ggcggagtag 360
 tcttcagctg gattctaaac cgagaaaaag ctagattcnt ttgggcgggt tgaaggcctt 420
 cttccccctc atggagcagt ccccatattg tgta 454

<210> 28851
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G8

<400> 28851

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ttaattgata ttccaaggac tcaagttgtg tcacctatgg taatgggtcca gacatatatg 180
attactgtct ttaccttgta tcatacaatt accttggttt atattctttc tcttatctgt 240
attaa 245

<210> 28852

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G9

<400> 28852

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aggaatcaac tttggtggac tatattgttt tctgcaccaa agaccatgtt caggctgaaa 180
agatgctaga tcttctacag tcgattttcg atgttgtggc cgatatgttt gttcttcata 240
tgtggaggat tcttatattt 260

<210> 28853

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E9

<400> 28853

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cgcccgtcag caagtgccac gtttctgttc ctggtgtgcc cagcgcgtct cctgttccgg 120
ctccctcgtc cggggcccca gacttcgggc agtcgccgac gccgtcgccg tcaaccctt 180
cgggatcacc ggcagcaacc cggagccaga ccagcggcgc tccagcgccc tccctagcgc 240
gttccgtcgc tgccggcctc tcggcaccac cactggcctt cacctttctc gctgtcgtga 300

ctcttttggg tgctccgcatc ttgtgagctg tgctcattta ttctatttca tgcgcttcgt 360
 ccgtaccatc ttaccacctag tctgtcctct tatcattgtc tttgttttgt ttcttgtgag 420
 ctttttcggt tcgttttttt acctctgttt tt 452

<210> 28854
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-D10
 <400> 28854

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 ggagtcgctg cagtggcctt cacgaacaag agcctagtct ctcggcacgc atcgctacgg 180
 gtctgctcgt cgaggctctc gatccgtatc ctggtcgtta aggctgcaac tgcgctcatc 240
 tcaaagtaca cttcactgaa gcctctggga gatagggtgc tagtgaagct tggtgccgca 300
 ttggagaatg acagttggtg gctttttgct ttctttctact gtccagacta aacctta 357

<210> 28855
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-D11
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 cccgtgcttg attctccggt ggccagccct gttgcggcca acagcaactt tgtgggggttc 180
 agttatgtga ggcccgccacc gttccttcag aagccgagtc ctcttggcta aagaactact 240
 tccgtgatct gatatctacc ccatagttca aataactatc tttgagtccg aatcctatgt 300
 atttcttcaa gacattagtg atgggaatct aaccttattg ttgtgttg 348

<210> 28856
 <211> 151

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D12

 <400> 28856

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 aggtgtcgtg ttgaagaact gccttgagag aagagatttc actagctatt cctcgaatat 120
 gaccttgcat gattctctca tgtcgacctt t 151

<210> 28857
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D2

 <400> 28857

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 cacttcgtcc gcgagcgtgt cgctgccggt gacgttcggg ttctcagcgt cccaccatg 120
 ctccagttcg ccgacatctt cacaagggg ctaccgacga gtgtattttt agaatttcga 180
 ttcagtctca acatctgtac aggacagagt tgtgactgcg ggggtgtag actatccctt 240
 tgtaatgggc caggcccaag tactctaata tatcaataca acttcaacct tggtagggg 300
 taggttttgt cacaatccaa catttagttg ttatatgttg ctttttggct aattctaata 360
 attttcttga tgatttca 378

<210> 28858
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D4

 <400> 28858

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 tctgctttgc aagaatttgg tggagccaag ggcctgtttg atggttacat ggcaaggagg 180
 cagaagatag aagcttcaat ggggtacaag gtgcctgaca acgatggaag gaggcattgct 240

ttaaccttga gtgtgagtga ttacaaaagg cggcggagtc tcctctgaat ggtatctctg 300
 attgtgctgg acgcctaacg gattcaacta tattcctgtc gtctgcacct atgtgcattt 360
 gctgggacaa ttgtgcagat catttgcatt ttgcctt 397

<210> 28859

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D5

<400> 28859

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 tcctcagcct ccgcgagagg aggacgaggg ctctcttgc cggctgctgt tgtggtgcta 120
 ctgttgggtg 130

<210> 28860

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D6

<400> 28860

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 gcgcccttcg tcgcctctac cggcttccac gtcacggctg caggcctccc ggggcgcgct 180
 ttgcgcaccc agggcgcgcg ctgtgggacc agccggagtt caggacctc gacgccgtca 240
 gtaccgtcgc ctggccgact taggcgcctg tcaccatcta caactactgc accgatcg 298

<210> 28861

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D7

<400> 28861

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gggcctgtgg aacgccgact actgggctac ttgtggctgt cgcgagaaga cggactgggt 120
 taactcgcct tttgttgtct atctacttcg gttttcactt tgactgttt 169

<210> 28862
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D8

<400> 28862

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 cgatgacctg ccgtacccgg acgccaagcc catggcgggtg cacgccacac tgtgggacgg 120
 cagctactgg gccacgcgca agggcgaggt caagatcgac tgggccagcg cgccttcgt 180
 cgtctcctac cgagactaca ccgtcaacgc ctgcgccgtc gacggccgga acgggggagg 240
 cagctcgtcg tgccccgcgg gtgccaaacga gtggatggac aggcagtcgg acgacaccga 300
 ccgtcttatt gtggcttgtg cgcgcctgaa ctgcttgacg tacaac 346

<210> 28863
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E1

<400> 28863

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 gatattgttg ttgtcgggtg tggaggcaga ccattgacta ctctcttcaa ggggtcaagtt 180
 gctgaggaga aggggtggaat caagactgac gcttcctttg aaacaagcgt tcctggagta 240
 tatgccattg gtgatgtggc taccttcctt ttgaagatgt acaatgagtt gaggagagtg 300
 gaacatgttg accattctag aaagtctgca gagcatgctg taaaggcgat caaaggcaaa 360
 gag 363

<210> 28864
 <211> 370

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-E10
 <400> 28864

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 ggatcaggct tacaggaaaa tcaggctccg tgctgaagat gtgcaaggca ggaatgtgct 240
 cacaaacttc tggggcatga attttaccac cgataagctc agatctctag taaagaagtg 300
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 gttctgcatt 370

<210> 28865
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-E11
 <400> 28865

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 cattcttcag agtaatgtag aggatcgggt cccagcagta ttaaaactgg aggaagaaag 180
 taaaacactt cgggattttc atgttggtga tattgaactc ccagggcagt acttcacaga 240
 tcaggaaatc gcaccggacc aactgttaa gttggacaga gttggacctg acattccaat 300
 tgtccggagg catggcagta gctttcgacg gttgacactt attggttctg atggttcaca 360
 gcgccatttt attgttcaga catcactgac tccgaatgct cggagtgatg aaaggatgct 420
 gcagctattc cgtgtgctaa ataaaatg 448

<210> 28866
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-013-Q1-K1-E12

<400> 28866

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cagcagacaa tttggccacg tgctgcagca gctgcagagc ggctatggac accaattgag 180

aagctggcga aggacacaag atcgggtcact gcatgattgg cacgcttcag gtgcttgctg 240

aatcaaagag gggttgctgc tgcaccaacta gctggttatg gccgctcggc accatcagaa 300

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aggctttcaa tttac 375

<210> 28867

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E2

<400> 28867

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atgcccgtac ggagtgggtga tgtcactgca attaagctaa aatgattgct cattacttga 120

agccgatatt gttgttgtct ggtgttggag gcagaccatt gactactcta ttttaagggtc 180

aagtt 185

<210> 28868

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C9

<400> 28868

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ttggtgaatc ttagcataga acttgacctt ctattatttt gtatgtttgg tttgcatggg 180

ataactggca tgggatatat ttatgtacat tgatatcggt tttatgctta ctcacatggg 240

ataatctgat cttctaactc aagatatttt tcttttggtg atatgatcgt ttaacttaag 300

tttgcattca ttttagactt taggttatgt tagtcataac atgcttggtt agacatattt 360
acattgtttg atcatatttt cttttcatgt tacgtttgta ttatttggtat ctcggtgggt 420
t 421

<210> 28869

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E4

<400> 28869

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catcaacagc gggtagcagt cgtgggggtcc gctcttcggc aagctcttct tcgccttctg 180
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gaccatcgtg gttgtctggg cgatcctgct ggccgtcgatc ttctccttgc tgtgggttcg 300
catcgatccg ttcaccacc gcgtcactgg ccgggatact cgaacgtgtg gcatcaactg 360
c 361

<210> 28870

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E5

<400> 28870

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tagccaggat attgggtgta gtggatctag tgggcatggt gatgaagcca accaagaaca 300
ccttcaactt gctctagaac cttcgtctga tatatggtat caaggctaca tggaccacct 360
gtactatgat taagttgctt ctttgtgcgc tgtgtgctct aatggccaag gttcttctat 420

atatgtt

427

<210> 28871

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E6

<400> 28871

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ggatgggtttg gatgtgcccg tgtaggtatc ttgcgtgact cgtatgcaca agcttcggcc 120

acccgtggaa agcagaagac ttggaggaag aagcgaaagt aatgatcttt ctcttcctta 180

tgtttttgtc atttggattc atttagcttt gctcttggtc tgtagtttat ggtgcttctc 240

gattagatca ccggtcctac gattgttaac ttttcatgcc gactcattgt ggatcttgca 300

gtggttccta cggatattaat ttgtctgagt 330

<210> 28872

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E7

<400> 28872

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gggtcgattt taatggcccg agcagggttat taagggtact cgtagtacat tctagaacca 120

cccgcacgaaa gcataataact 140

<210> 28873

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B12

<400> 28873

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gtgacacttg cggacgtgtc taatgaatgc acggagctgc ataagaggat cttgtgctgc 120

aaactttaca ctagagaata acgataaggg agatcaggaa ccacatatgg ttcattgagga 180
acacttttat 189

<210> 28874
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B2

<400> 28874

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cgaagaaatg agctttatgt gtgtgcaagt tcggctctgta tgttttcttt agatttggtt 180
agtcattacc ttatattggg cctttactct ctatttttat gcattttgtc ttttttttat 240
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ttttttaatg ttatttttaa 320

<210> 28875
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B3

<400> 28875

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gagaaggccc tattcagagc actgaaaact cgagggaata ctccaaagta tgggcttata 180
ttccactcct cctatattgg ccgtgcttca accaagaaca agggcagaat ggctcggttac 240
ctggcaaaca aatgctcgat tgctttacgc attgactggg acttggaggc tagttcctct 300
gtctttgggc aaaaattgct 320

<210> 28876
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B4

<400> 28876

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atggcgattg ttgagttcga cgagcagccg tcggataact tcgaccgaa gaaccgcgtat 120
gccgaccgcg tggcgatgct cgagtaccgg gaacacctgg tgcgagagaa gtggatccag 180
atcgagaccg ccaagatcat ccgggagcgc cttecgctgg gctaccgcat cgagggcatt 240
aaccaccacc agaagtgccg tcacctcggt taccaatacc tataggc 287

<210> 28877

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-013-Q1-K1-B5

<400> 28877

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ctatgtgata gtgctgaaag aatattttca agtgaacctg gtgtcttaca gctgaaagct 120
cccattaaga tatttgggtga tctgcatggt caatttgggt acctcatgcg cttatttgat 180
gaatatggcg ctcttcaac agctggagac attgcttaca ttgattatct tttcttggga 240
gattatgtcg atcgtggtca gcatagtctg gagacaatca gtcttctcct tgcactgaaa 300
gttgaatatt ctcaaatgt acatttaatt cgaggg 336

<210> 28878

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B6

<400> 28878

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atataaaaat aaaacaaaaa aaatattata aagtatcact cttatatctt acaatattaa 120
ttctccatt tttatatttc tcttatcttc attatttttt tccattacct tattctctta 180

tcttattttt atttttcttc ttttacttct ctttacattt ctctcattga ttttctttat 240
ctttttactt tacttttttc tttttttct cttttcttct tacttttctt ctctttctta 300
ttattcaatc gttttttttt ttcttatttt tcttttcttt ctctctaat cttttatttc 360
tttttgtttt ctttctttta tttttttttt caattttttt attttttttt ttatttatat 420
ttctctatta tccttttttt tttttttttt ctttatttat tttttttt 468

<210> 28879
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B7

<400> 28879

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tgtgaatcct cttctatttt ccctctccat tgttctttta ttctatttcg gttttgatgg 120
ccagtacttg agtcaggtaa tgtgtacaaa gttgcgtctg atgctgcctg tcattgaatt 180
gtttggcatg tgaggaagat ttaaattgaa tattcaactt ttgtggcat gatagttgca 240
cttattttta ccaataatat tcattattag gattcttttt ttttcttctt ttttttttta 300
tgttttattt tacgttagtt tttttatttt tcttatcggt ttattatatt tctctttatt 360
t 361

<210> 28880
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B8

<400> 28880

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gcttgagaag gacaaagagt tatttcaact agcccagcaa taccacaaag tggttgcaga 120
aagggatcaa gccattgcag tcaaagatag actagaatct cttttagggg aatttcagcg 180
tcaaaacaaa atgctaaagg aagagtgcc aagggtatcg acagagggac tgaacatgcg 240
tacggaattg tctgaaaaat ttgatcatgc catatagggt gtcagtgcc aacttgatga 300

gcatagagtt gagcgcatTT ctcagctaga aagagaacaa tacgttgaga agtaaaactga 360
aagaccttgc tgatcaattt acattactta gcaaaaaatat gctcaccaat 410

<210> 28881
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B9

<400> 28881

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tagggTTTTg ctgccgcgg cgcatggag cccacctcgt cggcgtcgat cgcgcggcag 120
acgtggggagc tggagaacaa cattcccgcg ggggcctccg acccggacgc gatggacgcg 180
atctaccgct acgacgacgc gtctcaggcg cgggcgcagc aggagaagcc ttgggccaac 240
gacccgcacc acttccgccg caccaagatc ttccgcctcg cgctgctcaa gatggtcgctc 300
cacgcccgcg cggggggcac catcgaggtc atggggctca tgcattggcaa gtgtgagggc 360
gacgccatta tccgtatgga cgcattcgcg ctccccgttg agggca 406

<210> 28882
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C1

<400> 28882

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aagtcaaaat ctgaggttga ggatgatgag caggatggta atgaggatga ggatgagtaa 120
atagtacgat ggggaacagc agctttgcat ttgagtgttt gctgctttac ttatTTTTct 180
atatgctgtt ctttttgatg ttatatgctg taaggaaaat ctgtacatga tggtagctta 240
gggtatggca tgctggagtt cccctttaac ccgaagagcc ggatactttt gccagcctcg 300
tcagcatgtg taaacagttt gttttcttgt tttattgac 339

<210> 28883
<211> 165
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C10

<400> 28883

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ggtagcattt tactctgtgc tgaaacagtt gcaattcatt tcttctgcga tcaaattatt 120
ttggtgaatg tcatcataga acgtcacctt ctattatctt gatatg 165

<210> 28884

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C11

<400> 28884

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gcgctgcgtg ccctgtacaa cgagatccgg agcatgaagg tccgcgacgt gccggcttac 120
ctgaagccgc gcttgacctg ggacaacgtc aagaagagcg ccgaccaggc cgtcgaccgc 180
tacatcgaga agtacatcga cacgagctcg ccggaccctc tctaccacgt ctgcatcgga 240
gggatgatct tctcctactt cgtcaatctg ccctggggagc gcgcccacct cgcccacctc 300
gaggagatgg agaggaccgg tgggaagcac tgatccgctg ccccgttctc gccggcagcg 360
cgggaggact cgtgactttc atgggggtcca ttcaggctga cgacttctgt tttcttctgc 420
tgttgagcta ctggagtcac gttacttt 448

<210> 28885

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C12

<400> 28885

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tcattgtctg gatcatcttt ttctccttgg atgtgttgca tcttttgagt gtggaaatgg 120
atggtactcc tcgccatgaa tttgctgggt actttatata ttgctttgta actctgtttg 180

atgataaact ttgttgtggc 200

<210> 28886
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C2

<400> 28886

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atccagggca tcacgaagcc ggccatccgg aggctggcgc gcatgggcgg cgtgaagcgc 180
atcttcgggc tcatctacga ggagaccgcg ggcgtgctca agatctttct cgagaacgtc 240
attcgcgacg ccgtcaccta cactgagcac gcacggcgca agaccgtcac agccatggac 300
gtcgtctacg cgctt 315

<210> 28887
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C3

<400> 28887

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atggagccat gattgctgaa caagtatttg agaagactaa agagaagttc caaatgtatt 120
gaaccgtgga attacttggg gggatgattt aacattgtga tagccctctg attctcaaaa 180
aaagaataac acaacctctg gtattatgta atttatgatg ggccacaaat tgccattgtg 240
cttccatttc tgaaaacaag attgatgtca ctcttgatc ttcaatgagc agttgattct 300
taacttaaata aattaaattt tttttatttg ttttattttt 340

<210> 28888
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C4

<400> 28888

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<210> 28889

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C5

<400> 28889

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atttcctccg tccccgaacg atcgatcttt tgcattggcag cagcggctag ctccaagggg 120

cgggcgatcg ctgggagctt cgtcagccgc gtcctggccg gcaaggccgt ctccccgagg 180

agggccgtgc acgcctcgtc ttacgacaag aaccctgttg agcatgtgcg cccggcgcttc 240

gtgcctgact atgtgac 258

<210> 28890

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B11

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gtggcaattg ctgaccaggc taccaaacca acgtcccttc ataagctcgg tggccagttc 120

cacctgcgct cgatcatctc tgaagggtgta cgggtccgta acatatgcc atctgtctca 180

tcttatgaaa ggagatttgc cacaaggaac tacatgaccc atagcctttt gtgcccttcg 240

atgtctgtta gcggtggcat caatgtccca gtgatgcgga ccccgctctg tgctaagtct 300

cctgctgaga aaggaggc 318

<210> 28891

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C6

<400> 28891

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cataatatca tgcccggcat caagggttgac aagggttttag ttccattgcc tggttccaac 120

aatgaatcgt ggtgccaagg tcttgatggg ttggcttcaa ggtgtgctga gtactataag 180

cagggtgccc gcttcgcaaa gtggaggact gttgttagca tcccttgtgg tccatctgca 240

ttagcagtgt aagaagctgc atgggtgactt gctcgatttg ctgctattgc tc 292

<210> 28892

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C7

<400> 28892

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ccaggccgac cagctccgga acgccggccg cctgcaagtc cagtacattc ggggtggcgtg 120

caactggaac ggcttggaca tcgccttcag ggtggacgcc ggctcaaacy ccaactacct 180

ggccatggcc atcgagtacg agtccgggga cggggacctg cgcgccgtgg aactgaagca 240

gagcggcgcg gcggcggtgg cgcccatgca acgctcctgg ggcgctgtgt ggcagtacaa 300

gtccggctcc accaatctgc aagccccctt gtctgatcgc ctcaccttgg gcttcggcag 360

g 361

<210> 28893

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C8

<400> 28893

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agaacaacgc caagaagcgc cttaagcggc tctggcagaa tgaggcggtt ataagggtt 120

gtggtgaatc agaatccaga tcagcgtcta acgtggcttc caccactgag aaacaacagt 180

agcctttgac tatttcccc agtttgctgt catcagattg aaagccaagt gcgtgtataa 240

atcttacttt cttcaacatc attcgttgct accatatgca accttgcccc ctcccgaact 300
 tcggcggttat ttttatttca ctggtttcat gttacttctg gaaaaactac ttggggattgg 360
 tttccttcct taattattct gcatatgctg aatgatattg cctgccggaa tgggatgcat 420
 tgcaccaaaa aaaaaataa ag 442

<210> 28894

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A1

<400> 28894

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 ccatgagaac ctacaacaaa gcagtgtctc tcgtccttgc catggtgatg gcggtgtctgt 120
 cgacagggat ctgcacagcg ccggcgccgg caccggcacc gagcttggag gagttcccca 180
 cgacgacaga agacacgtgt gtgaagatcc tcgccgacag cggctgcgtc cacaaccaca 240
 aggcgtgcca 250

<210> 28895

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A10

<400> 28895

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 cgccgaggcc gcgtcgacgg ctgcggtgag gacggcgag aaccgcgtcg aggagttctt 180
 cgaggctgag cggagcaccg aggagggcaa gcctcctccc cactacggtc gcagctggaa 240
 ggcttctgaa ctgcgactaa aatcttggga tgaccttcag aaattgtggt atgttcttct 300
 aaaggaaaag aacatgctaa tgacacagcg tcaaagtctg cattcagaga gcatgaggtt 360
 cccaaatcca gaacgatatt tcaaggtaaa gaaatcaatg tgccggataa agcatgtctt 420
 gactgatagg tctatagcgg agcccgatcc 450

<210> 28896
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A12

<400> 28896

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cgcctaccaa cctcaaggag cgatggctct gtctgcgacg ctacggattt ctcttagcgt 180
cgcgttcttt ggggttcttg cgctcgtgct tgggtgtcatc gccgaaaaca aaaagcctgc 240
ttccgggact cctatcctag gaaaggatgt cgtcatctgc acgtttccaa gtgatccgac 300
tcttgcgatg gggagcctgt ccattggggc acttggtgta gctgccatcg tatgccatgt 360
tgccatcttc tttccatact tgggcaagtc agttcctcgt ggagcgtgt ttcaaagcac 420
cagcttgata gtgttct 437

<210> 28897
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A2

<400> 28897

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tcaagagtta gagggcaagg atacgatgga gcctcaaata tgagagggca gtttcatgga 120
ttgcaaagat tggatttga tgaaaaccca tatgcatttt atattcattg ttttgctcat 180
caattacagt tggtggtagt ttctattgcc aaatgttgtg actcagtata tgatttcttt 240
aattacatct tattgattgt caatactgtt agtgcattct gcaaaagaaa agatcttctt 300
cttcagagac atcatgataa aattgtggaa gaattagata gtggtgtcta tattttctgg 360
gagaggaaaa aaccaagaaa cttgtctcgg caggtcaggg gatactaagt ggggccca 420
ttataagaca ttggtgcgta tctttttatg t 451

<210> 28898

<211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A4

 <400> 28898

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 ccaggatata gtacaccaaa acactactac tcgtcctagc tcatgtggat gcctgactgt 120
 ttacagggat ctatacagca tgtgatcccg tactatcgcc gatctttagt gagttcttgt 180
 attcgactga ttgcacttga ttgattatct ctcacttact gatgctgct 229

<210> 28899
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A5

 <400> 28899

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 ctagccttca cttctcagca cggcagcctt cgatcccccg actgcagccg ccagccgcgc 120
 catggagcaa gcagccatgc cgcagggttc cgcggtcaag ctcgccatcc aggggcttga 180
 ggtgtcgaag ctgggggttcg ggtgcatggg gctcacgggc acctacaacg cgccgctcgg 240
 cgactaggcc gtggccg 257

<210> 28900
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A6

 <400> 28900

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 tcggaactga cattgaagac tacaaatgtt cctggctagt tgtgcaagct cttgagcgtg 180
 ctgctgagaa ccaaagagc attctgtttg aaaattacgg aaagtctga 229

<210> 28901
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A8

<400> 28901

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cgagggtttg ggtttgtcca gtattatgat cctgctgatg ctgctgatgc gaagtactat 180
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aggtattctc gctctaggtc gcctcggtat tatagggggc gctctccttc acgcagtcaa 360
agctactcga ggtctccacc ttagaatcca tgacacagac ttagagagag gtcctactcc 420
ggctcacctg tggacagcag atcaag 446

<210> 28902
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A9

<400> 28902

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ctggtcagat cctgagaaaa gaaggcagta tgatactgct ggttttgagg agttagaaaa 120
tgaaggaatg gatatggaaa ttgatttgtc caatcttgga actgtgaaca caatgtttgc 180
agcacttttt agcaagcttg gtgttcctat caagaccaca gtatctccta ctgtgctgga 240
agaggccatg aatggcacag atacagtgag accactccct gttggaacat cagctactgg 300
ataggttgat atgcaatgct cttatTTTTT tggcgtaaca ataattgaag agcaagctca 360
ttc 363

<210> 28903
<211> 315
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B1

<400> 28903

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cgaagaagtc ggtgtcgcgg tccgccaggg ccgggctgca gttccccgtc agccgcgtcg 180

ggcggtacct caaaaagggc cggtagcgcg agcgtgtaag cacgggtgcc cccgtctacc 240

tcgccggcgt tctggagtac cttgcggtcg atgtgctcga gctcgccggc aactcggcaa 300

gggacaataa gaaga 315

<210> 28904

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B10

<400> 28904

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tagagctttg ctagctgaag gtcgatgaac ccaggtagg aatagaatgt accgcggcag 120

acatgcgacg tggaaaacaa cattggcttg gtatcctccg actatgactc gatagacgaa 180

atctatcagt actacgactc ttcttacgct caggcgctac atgagaagcc ttgatccaac 240

tac 243

<210> 28905

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G7

<400> 28905

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tcggtgcaat gcctatgcag ctaagtgctg cagattagtc ggctccatac cacatgcaac 120

tgatgatgat actctctact acaccaatca tcaaagaaat ggatatctgt gaaatcctat 180

tcctatatattc agcattgtat taagagttca cctataaacac aact 224

<210> 28906
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G9

<400> 28906

tcgcttcatg tcaaattggg gtgctttctt ggaagttatc cataagaaga gagctg 56

<210> 28907
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H1

<400> 28907

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cggctcttggc cccctcctca agagaagaag ctgaaccatg gggaagagaa agtcagctgc 120

taagccacct tctaagaatc gtatggacaa gcttgacact gacttttctt gccattctg 180

caaccactgg agtcgtgtag agtgccgaat tgacatgaag gaatctgatt ggccaagcat 240

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atatatatag tgaatggata gatgagt 327

<210> 28908
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H12

<400> 28908

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gcttgctatg tcaactgcag ctattgcaac actatactgg aggtgaatgc gccaaagcata 180

cgttgactac aa 192

<210> 28909
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H2

<400> 28909

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cgtcggtctt ggttcctctc tcaagaaaag atgctgtacc atggggaaga gaaagtcagc 120
tgcttagcca ccttctaaga agcggatgga caatcttgac actgattttt cctgcccatt 180
ctgcaaccac gggagtagtg ttgagtgccg aattgacatg aagaatctga ttggcgaagc 240
atcttgtaga atctggtctt gaaaacttca ccacaactgt ttatgcactc actgagccta 300
tttgaatata tagtgaatgg att 323

<210> 28910
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H4

<400> 28910

cggagcgggc agcaacacac agccccaacc caaaacaaga cgagacgggg acacgccaca 60
agaaaagaag cggaaccaag ggaagagaa agacagcagc gaagccaccc acaaagaagc 120
ggacggacaa 130

<210> 28911
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H5

<400> 28911

cattgacgag aatcaccgcg gaacttatga tttcatctac cttccaattg attctaagaa 60
tggatgtaac gtgggatatg cattcatcaa tatgacagat ccacagcaga tagttccatt 120
ttacaagaca ttcaacggca tgaaatggga gaagttcaat agtgagaaag tggcatcact 180

tgcgtacgcc agaatccagg gaaggaacgc tatgattgct cattctcaga attctagcct 240
 gatgaatgaa gagaaatggg gccgccctat gcttattcac aaagatggcc ctaacgcatg 300
 agaccaggaa ccattccctg tgggtaacaa tgtatcgttt tcgggtctcgg aggaacata 359

<210> 28912
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H6

<400> 28912

catagatgag aatcaccgcg gaacttatga tttcatctac ctttcaaagg attctaggaa 60
 tcgggtgtaac gtgggatatg cattcatcaa tatgacggat ccacagcaaa tagtttcatt 120
 ttacatgaca ttcaacggca tgaaatggga aaagttcaat agtgataaag cggcattact 180
 tgctgtacgc ctgaattcag tgtatgaacg cttagatt 218

<210> 28913
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G6

<400> 28913

atttacgtgc tttggtgata tagcactggc aattggggag gactttgata agtttgggat 60
 cgggtgctatg cctatgctgc atagagctgc tgatttgtcg gcccatacca ctgcaactga 120
 tgatgagatg ctctgactac accaatcagc tgagaaatgg aattttggaa gcctactctg 180
 gtatcctgca aggatttaag agttcatcta atacacaact gatgaagcca ttcgacctt 240
 atattatt 248

<210> 28914
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H5

<400> 28914

accacgcgtc cgctgggttg gggaaacaaa atatagaaag catattcttc aggcactttt 60
 atagatatag tatcttgcac agtttaagag taaaaagggt cgacttcaaa tgtaacgtgt 120
 ttgtgggggt ctttcaaacc actggagatg atttactatc ccctaagatg agattttaa 180
 ggtttccttt ctgcagactg ct 202

<210> 28915

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H6

<400> 28915

aatatccagc gtttgtgtca atctggtaaa tgccgacttg accgcacagc agacgggagt 60
 gcgcatcacg gaggagagga tcctactgga cgggtcacct gaaacaccta tcgattacat 120
 tcaagttcag attgccaatg tcgagtccaa atttaccagt gcgatatctg agactggaga 180
 gatcactgtg gagggcagag tgaaggatgg tgttctcat ctaacaaagg ttggagcatt 240
 ccaagtcgat gtgagcttgg aaggaagcct catcctttgc aggcacgttg atcaaccatg 300
 gatgattggg tcaatcgga gcgcttggg tgacgagaat gtaaatgtca gtttcatgag 360
 tgtttgaag aatt 374

<210> 28916

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H7

<400> 28916

accacgcgtc cgcccacgcg ttcgcccacg cgtccgattt ctgtgaaggg aatcaagggc 60
 gccttaacag gcgtacttct gcctgtgttg gtgaccatgg agaattggaaa gcctaacctt 120
 aggaagaagg tgatgccagc tgctattgtg aggtagcgca agccatgggt ctgaaaggga 180
 tgacgtctac atgtactttg aagaagcaag acaaataaa ggatgctgaa cctagtgcaa 240
 tagatctttt taaggagatg cattgcagca aaaagaaagg gtttagcata tatgttcaga 300
 aagctattgt tgatatggaa gaaatggtgg caacatcagt tcaagatgga caacaaccga 360

aatatacctac aaaagttggt tatagtgtgc aacttggctc cagtgtgttc ttatgcaatc 420
t 421

<210> 28917

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H8

<400> 28917

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taaagttaac gtgggatatg cattcatcaa tatgacggat ccacagcaga tagttccatt 120
ttacaagaca ttcaacggca agaaatggga gaagttcaat agtgagaaag tggcatcact 180
tgcgtacgcc agaatccagg gaaggaacgc tttgattgct catttccaga attctagcct 240
gatgaatgaa gagaaatggt gccgccctat gcttttccac aaagatggcc cgaacgcaag 300
agaccaggaa ccattccctg tgggtaacaa tgttcgttct cggtagcgga ggaacagacc 360
acttagcagt ggttcggaga ctaccaa 387

<210> 28918

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A1

<400> 28918

gccacgcgta cgaatcatta ttcataataac gttctttagt cacaaggct gttggacatg 60
aggaacaggc attgtactat tacggtcaat ggcgtttaa tccgatgggt tcacttaggg 120
aatgatgatg t 131

<210> 28919

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A2

<400> 28919

aacggccaag cggaggaaac aaaagacaaa aaaggagcaa gcagcacaaa agccggggga 60
 caagaagaac aggcaggaaa caacaacgga caaaggcgaa gaaagccgga gggaacagaa 120
 agggaaggaa gacgaccgca aaaa 144

<210> 28920
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-A5

<400> 28920

cccacgcgtc cggccacacg tgcgcccacg cgtccgcgca cacgtccgta cacgcgtgcg 60
 ggggtattctc cctcttgccg gttcccaata aagatcagct gctcatgatg tctgcagag 120
 cgagaagaag gcaatggcgt gtcgacagct ttcttttcac ctctgagtcc acgaactagg 180
 ggcaccctga caagctgtgc gactcagtgt cagacgccgt gcttgacgca tgccttgccg 240
 aagaccctta cagaatggtc gcctgctaga cctgcaccaa gaccaacatg atgatggttg 300
 tctgctagat cagaccaac gcgaccgtgg act 333

<210> 28921
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B1

<400> 28921

tcgaatacac atccctacac gctctcttct gcgcagttga acaacagttc agactgccct 60
 ccctggggaa ggtcatgcaa tgctatgtgc ccactatcga ccacttctag cggatagacg 120
 agcagtgcgc attcatagtg cggctgtatg ctgtgttacc gaatggacgc atgttgt 177

<210> 28922
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B5

<400> 28922

aacgcacgta cgtagagcgt ttgactctca tgcattgccat aacatgcagt ct 52

<210> 28923

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B6

<400> 28923

aacacacgtc tgtagaccgc ttgatattct tgctattctt aacatatatt c 51

<210> 28924

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B7

<400> 28924

accacacgta tgtagagagc ttgatattca tgcttgcctt aataaacagt ctcagacgat 60

agtgcacgat atatcacgta cttatgttta tatt 94

<210> 28925

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-C1

<400> 28925

gacgatcttt ggcgagtgtg taatccttaa atttaagcta gatcggtgct gctacctgga 60

gagagctgtg atgagaaaagg ctatctctgc agagagcctg atatttgaag actcatttga 120

cggctaacat gtggtactag tttagacata tgtctggact gctatctctg aaagggttcgt 180

cacggctctgc taagctcata atttttgaat atctgatagt cgaaataagg aaggatcatt 240

tatgtgtagc aatagctaaa tggtatt 267

<210> 28926

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D6

<400> 28926

accacgcgtt cgcccacgcg tccgattacg cttacgagac tatggatatt caacatacgt 60
ctggaatata tatggaggag cttatgtccc gttttatgga tgagtaacag ttggtatggt 120
gacaggaaca agtacctatt attcatatct tcattttggg cagttttgaa aactactat 180
caactattca atagtacaat gcttctactt gctacaattc ttacatatgt tacaattatc 240
aactgaatct tctacagttg ctgtatgtta ccgtttatga tcagtaatat tgaagatcat 300
ttggt 305

<210> 28927

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D7

<400> 28927

tcgaccacgc gaaagattag acatgcagtt tcgctttctt gactatggtc atccaacaag 60
cgtcggcgta tatattatga agagcttaga atccgattta tggtaggacc aacatcgga 120
atggagacat gtacaagttc ctttaataca tatgactcat ttagccaagc atgatacact 180
actaccaact ttaca 195

<210> 28928

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E1

<400> 28928

cttgtacgca tctgaagaca ttaacaatgg gcaagggaca actgggagaa tcattttttc 60
aagctttggc tgagtgccca ttattgactg ctttaacagt caacgatgct tctattggga 120
gtggcattca agaagtaact gttaatcatg atggacatgc gtgagcttca tattttgaag 180
tgccatgcac ttagaatatc ttgcagatga tcccaacttc aaatactgtc tttgaggcta 240
acaggcatgg ctcatgtatc tctgaactgt gctcaattgc ttgagttgga cttccaatcc 300

tgccataagc tttttgac

318

<210> 28929

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E3

<400> 28929

cttgtacgca tcgtaagaac atatcagatg ggctatggac aactgctaga atcatttttt 60

caagcta 67

<210> 28930

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F1

<400> 28930

cccacgcgtc cgcccacgcg tccggcagat ccttccagcg gctgtcgctg ttctgttcc 60

accttccggt gatcataagc aagcagcttc tgtgatgctc aagggcatga ccgcccattg 120

tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180

attgattttt agccctcttc ttacagtatc cactcagtct gggatctcag cccttggcta 240

actgaatgtg attctgacga ccccttctta ttactttgcg cgagcgttct gacaattgtt 300

tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360

aagtaatata taggtctatt tatatacatg gaagccgata catagtatga aaattgtgat 420

taggaatttt gaaagttttt tagattgatt cag 453

<210> 28931

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H4

<400> 28931

cggaacgcgtg ggctggaagc attcacggcg aagaaactct ttcggccagt ggaaaaacga 60

tggaccatgt tgatttgttg agagaacagt tgaaaatfff gtcaggggag gttgcgttta 120
 atacaagtgc tcttaagcgc ctcacagagg aagctggaag aagcccaaag aacgagaaga 180
 ttcagatgga aatgaagaag aagaccgatg aaattaaagg gaagcatcaa cagatagcat 240
 ctttggagag agagatagct catgcaacat taggaactca aggaaaggtc gatacgttag 300
 agcattcacc gtcttatcat gaactacttg agcagctcaa tgagaaatct ttagaa 356

<210> 28932
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F5

<400> 28932

cccacgcgtc cgcccacgct tacggcttac ctgcaatcaa aatgacgaat gggttaccct 60
 gcttgaatcc tttgccactg agcttgcttg ctactactat tccatgcaaa acaacgtgtt 120
 cttaaccaaa attaaagtta ctaacatcgc tgtgatgaat ggggtgaatcg taacctatff 180
 cttggaaata tcatctgctt gctcgaagaa cagctgcgct ggtccagcta tctgggtacc 240
 gtactatcta ccatcgattg aactgtatat ggggtcaaagt aatctgggga tatactctff 300
 gcatgctagg atataagggtg ttactactff taattcttaa atcactatat atattttaatt 360
 ctctttttatc aattff 376

<210> 28933
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F6

<400> 28933

cccacgcgtc cgcccacgct tacggcttac ctgcagccaa aatgacgaat gggtcaccct 60
 gctggaattc ttagccactg cgcttgcttg ctactaccta ttccatgcat aacagcgtga 120
 tcggaaccaa aattaaagtt cctgaacatt gctgtgatga atgggtgaat cgtcacctff 180
 tactatgaaa ttagcaactg tttgcacgaa gaacagctgt gcttgtccaa ctatctgggt 240
 accgtactta cctatctcta ttgaacagta ttttggttaa agtaatgggg gagatactct 300

ttccatgcta tgaaaaaagg tggaactacc ttttaattcta agattaagaa a 351

<210> 28934
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F9

<400> 28934

gccccgtact gcagtgcagt gcagcagtggt gctacccttc tcagtcctct tactttatca 60
catacgcttg tcttcctcgg ggagatcttt tcaacgaccg acagctcgga acgagcttta 120
gaagccatgg cgtcaaagag gctgctgctt ggggcgctgt gcg 163

<210> 28935
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G1

<400> 28935

ctgacgcgtg cgctgacgcg tgggctctac attggcatct gatgctgact acgagttcct 60
ggggcaggcc atgggtcatg gtgcgtggtc gaacactcag acgctgacgc tgctgctgat 120
cggactacct accgtactag tgctggtagc tgattatcgc caatagcacg tatcgtgtat 180
cggtagtggg caagccgccg gttactacat cgtcgacggg cacactggcc atattggggc 240
acctacacca catttgtccc tagacacaca tatctttcaa gg 282

<210> 28936
<211> 99
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G2

<400> 28936

tcgcggacgc gtgcgctgac gcttgggctt tacattggca ctccaagctg attacgagaa 60
cctgcggcag gtcatatgcc atggcggcct ggtcctatc 99

<210> 28937

<211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-011-Q1-K1-G5

 <400> 28937

 attttcgtgc tttggtgata tagcactggc aattggggag gactttgaga agtatctgat 60
 cggtgcgatg cctatgctgc aaagtgctgc tgatttgacg gcccatacca ctgcaactga 120
 tgatgagatg ctcgactaca ccaatcagct aagaaatgga atcttggaag ccttctctgg 180
 tatcctgcaa ggatttatga gttcacctta gacacaatct gctgatgcct ttcgctccgt 240
 atataattca gatccttgat gctctgtaca atgtgaagga tatggatgat actgtgatta 300
 atactgcaat atgtgatttg tgagatc 327

<210> 28938
 <211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-F5

 <400> 28938

 ggccgctcgag gactgcggcg cggcgtcgtt ccaccggtgc gactcgggtgc gcgtgcaggg 60
 cgggcataca gcgggcaaga gccgctgccg gttgtacgag gtggagagcg cgggcgcagt 120
 ggacatccga cttacaagg g 141

<210> 28939
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-F7

 <400> 28939

 cccacgcgtc cgcccacgcg tccggcttcc ctgcagccaa aatgacgaat gggttaccct 60
 gcttgaatcc tttgccactg cgcttgctg ctactactat tccatgcaaa acaacgtgtt 120
 cggaaccaaa attaaagttc cgaacatcgc tgtgatgaat gggatgaatcg tcaccttttt 180
 ctttgaaata gcaactgtat gctcgaagaa cagctgtgct ggtccagcta tctgggtacc 240

gtactcccta ccccgattga actgtatttg ggtcaaagta atgggggaga tactctttcc 300
 atgctaggat ataaggtgta actaccttta attctaagat caagaaatat atttaattct 360
 ctttatcaat 370

<210> 28940
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F8

<400> 28940

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 aaacccatat gggggcaaca atgcgccttg gatcaaggag gacctttttc caggtcacta 180
 actgcaaatc tgctaaactg tatgggaatg ctagctacgt tgatgaacgg caccgccaca 240
 gatactaggt gaatcctgat atgggtcccag aatttgagaa ggcagggcctt tctttcgttg 300
 gcaggggatga aagtggtaaa cgcattggaga ttatcgaact gccaaactcat atgtatttcg 360
 tcggtgcaca atttcacct gaattcaagt c 391

<210> 28941
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F9

<400> 28941

caaggagaaa tcaaggcgcc atccatcaca cgaccgagtt gactactaca gttcgcattc 60
 atggcgtgaa aaagatcggc atagacacca ttgatcaagg tgaggaggat cccggggttg 120
 cagggtcttg ctgcatggag accaccacat ggcagtgccg acagaatcat gaaaacttgt 180
 agattgtcat ctattggcg gttgcatttg cttcattgtg ttttgcacct tggattgtaa 240
 cttgcagagc aacatgaatt tgtagaacct tcattctcac tagttcccaa aattctcgag 300
 aaataattta tggtgttact aatataaaaa ataatttta 339

<210> 28942

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G10

 <400> 28942

 ggtgcaaggt gacaatatct ttgcttataa cgattcgagg caatttggag ctgtgcctta 60
 tgggctgatt acaggggaaga tcttttgccg ggtttggccg tcagagagtc ttggcgcaat 120
 tgatgactca tcgaagcagt cttaacgctg atgaggagcc gaggagcaca tggacccata 180
 ttgtttgatc gcgcccagag attctatcta taacatactg catgggggcc ctttattgag 240
 ctcgagagct tt 252

<210> 28943
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-G11

 <400> 28943

 ctccagggtca attgtgggtg cttccttgga agtaatccag aagaagagag ctgagaagcc 60
 agagggtccgc gatgctgcta gagaagctgc tcttcgtgag atcaaggagc gcatcaagaa 120
 gaccaaggat gagaagaaag cgaagaatgc ggatgtgagc aagtcccaga agacgcagac 180
 aaaggggtgcg gtccagaagg gttccaaggg ccccaagttg ggcggcggtg gtgggaagcg 240
 ctgaaagaac ttagtgctgt ttctcgacat tgcagtcgtt ccttagccaa agccactttc 300
 gtagaacctg tngtgaattt gcaagactta ttcaagcgtt gcttgtgctg gctaaatacc 360
 atggcaagag aacggattta tatttatgcc tg 392

<210> 28944
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G2

 <400> 28944

 gttgtatggt agaagagtgt tcattctctga tgaatttgat gaccttcttc cgaagtatct 60

cagctttttg aggggtattg ttgactcaga cacactgccg ctgaatgtgt cacgagaaat 120
gctccaacaa catagcagtc tgaagactat caagaagaag ctgatccgca aagctcttga 180
catgattagg aaacttgctg aagaagaccc tgatgagtag agcaacaagg ataagacaga 240
tgaagagaaa aatgagatgg aggagaagaa gggccagtac gccaaagttct ggaatgagtt 300
tggcaaataca atcaagctgg gtatcattga agacgcaact aac 343

<210> 28945
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G3

<400> 28945

cggacgcgtg ggcggacgcg tgggctcgac aatggcactc caggcagcct acgagtacct 60
gcgggaggcc gtcggccatg gcgcgtggtc gtccacgcag acgctgacgc tgctgctcat 120
cgccgtaccc accgtactac tgctgctagc gtccctcgcc aagagcacgt cgctcgccgg 180
taggggcaag ccgccggtcc ctccctagcc gtcgggcacc ctcccatcg tggggcacct 240
acaccacatc gggccccaga cccacatctc gctccaggag ctggtggcca agtacgggca 300
caacgggttc ctgttccttc gcgccagcgc cgtgcccacc ctgatcgtgt cgtttgccaa 360
cgccgtcgaa gccgtgatgc gcacccacga ccaca 395

<210> 28946
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G4

<400> 28946

cccacgcgtt cgctcctcgc atttcttccc atcccccttc gcaacccaaa ccccaactcg 60
cgcgccatcg atggcgccca aggccgagaa gaagcccgcg gcgaagaagc cggcggagga 120
cgagcccgcg gccgagaagg cgcgcccgga gaagaagccg aaggcggaga agcgggtccc 180
cgctggcaag tccggtgcca aggacggccg cgagggcaag aagggaaga agaacggcaa 240
gaagagcgtg gagacctaca ag 262

<210> 28947
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G5

 <400> 28947

 ctcgatcggc catcatctga ctgtgcaagc acgagagggg gatacagcgg attcataaac 60
 cgtcagagtg ttaggacaag atgggtggcca atgggtgatgc acctgctaga gggagcgcgg 120
 cggcagccgc aagcctgcgt aggcgtagga ccacaagcgg tgctgctgct ggtggaggcg 180
 gtgccagctc aatgctccaa ttctacactg atgaggctgc cggccgcaaa atgtcaccaa 240
 aactgtttct gatcatgagt attgggttcg tagccgtcgt tgctgtgctc catgtattcg 300
 ggaagctgta ccgcaccttc aactaggttg gcattgccat atccaagaaa gctgagtcca 360
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 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-G6

 <400> 28948

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 gaattgtgga tattcaagat tttagaggaa catgggcata gcatggaaga gttctatgct 240
 atagaatcat ctaaaattga tgataaacia atacatctat atggaattac tgaaggacat 300
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 tcatagttca tgactaacac aaaatt 386

<210> 28949
 <211> 57

<212> DNA
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 <223> Clone ID: LIB3067-010-Q1-K1-G7
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<210> 28950
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 tgatgagatg ctgactaca ccaatcagct aagaaatgga atcttggaag cctactctgg 180
 taccctgcaa ggatttaaga gttcacctaa gacacaactg ctgatgccat tcgctccgca 240
 tattattcag ttccttgatg ctctgtacaa tgggaaggat atggatgata ctgtgatgaa 300
 gactgcaata ggtgtcttgn gagatctggc tgacacatta tgtgtccatg cttgcccttt 360
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<210> 28951
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-010-Q1-K1-G9
 <400> 28951
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 gcatttgatg gttgatgttc ccaggaagca tggccagcgt tgccagtttt ttttgcacga 180
 aagagtaatg ggagctcttg tacagacaca tacttaatga taaaattgta aaactcactg 240
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<210> 28952
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 cctccccgat ccggctgcct acccagccgc ccgatcggat cctgcagtgt ggatggaacg 180
 ctgaattgtg gatattcaag ttttagagga aaaagggcaa gcatggaaga tttctatgat 240
 ataaaatcat ctataattga tgnataacaa atacatctct ttggaatttt tgatgggtcat 300
 ggcggntcac gtgctgctg 319

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 <211> 232
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 ccggagaagc aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgtttga 180
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 <211> 286
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-H2

 <400> 28954

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accccgcccc ctgccccccc acacgcacag tttagtcccc ggagcccgga ggcgtacgtg 120
 tacgtcgcat cccagcgcag cgatgccggt caccgtcggc gcccggaacca ccctcctcct 180
 cttcgccacc gcagtgggtgc tagcgtgcac ttcagcgccg ccggcatgcc atgccgcgca 240
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<210> 28955

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F4

<400> 28955

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 tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180
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 tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360
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<210> 28956

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H3

<400> 28956

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 taagccacct cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg 180
 caaccacggg agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc 240
 ttgtagaatc tgtcaggaaa acctcagcac aactggtaat gcacttactg agcctattga 300
 tatatatagt gaatggattg atgagtgtga ccgtgtcaac acttgtgaat gcgacgatga 360

tgcgtgagcc ttgccccatg tgatgaaact gttacctaca atcgta

406

<210> 28957

<211> 436

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-D6

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tgggggtccac tgatcttgcg cttacgatcc tccatctcct tacgcttcct ctctgtcatg 180

attgctctgt caatcagggtg ctggaatgtc gggaagggtg gattcatcag ctgatactaa 240

agaggggtcaa ccaagcctct caggaaacgg tactgccgct tggcgtcagt gttgacatct 300

tcaggagcat agcgagacaa ttgcagaaac ctgtctcgat actcactgac agacaatggc 360

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tactgacnga agcttt 436

<210> 28958

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D7

<400> 28958

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gacaggaaca agtccctttt atccatattt ccaatttggg cagtcaggaa acactactac 180

caactatata agtggacaag gctacaactt gcaacaatac ccacaaatgt tccatttctc 240

aactgtatct tctacagctg cagctgtgac cggttttgc cagcaatatg gaggaccatt 300

gtcactagca gcaagccctc aagcccaagc agtgtgtatc cccattaaac aggcattgact 360

atggcactca cagctccaac cctgccaaact tcaacacagg ctgctcatcc ttaccggttg 420

attcccttgc actttgcaat ttc 443

<210> 28959
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D8

<400> 28959

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gccggaatcg gcccttctac cgggtgatgg ccgtctatag ccgctccct cgagacggca 180
agcaccttga ggtactcggc tactataacc agctcccagg gaaggatgga tgcaaaagga 240
tgggcctgaa attcgaccgg gtgaagtatt ggcttgcaat tagggcacia ccattagatc 300
ttgtgcagag tattctcttt tcgagcc 327

<210> 28960
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D9

<400> 28960

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tgaggacata tagggccctc cctgcgtgta tgcttggtac cgtcgtgtcg aaccttgtag 120
tacgaggctc catcgaacat cgatggcttg cttctttatc agaacatgtt tgaataaacg 180
ctatttggtg aaaaaaaaaa atataatttt 210

<210> 28961
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-E1

<400> 28961

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gaggttaggtg ttctgggtgct cggttgcgta gcagtaaagg gagttttcgt cgtgatgctg 120
ctattactga actgggaggt atgcgacttc tatgagtagt tgcttattag cctacagaaa 180
atatagggat ctggagactg gttatgtttc atggctgttc ttctttcacc ggtaccatctt 240
tatgacgaac gttgtatgac tgattatctt cttgggttacg ttactgctac ggcattggcct 300
catgaccctn ttttgatcta aaaaaaaaaa atattattgt tt 342

<210> 28962
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E10

<400> 28962
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taggtgcatt gtaagtactt ccgcggctga aagtcttagt ctaccttggg ggtgatattg 120
ggagcatgct actccaaagc aaagtgcacc atcagagggt gcgtcgatac cccgcggatt 180
gcgaaaacag gcttgcaaaa gggttcgagt a 211

<210> 28963
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E11

<400> 28963
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agcttcacaa tctcccgcaa ggccaagcaa gagctcttcg ccatcgggtga cgacatctcc 180
cgtttttcga gcacggttga agagaaaagca aaatgggtgt tcgagaaaact caaaaggccc 240
aagaagtgcg ttctgatct actgcgcgag cacaaccttc cttc 284

<210> 28964
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E2

<400> 28964

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gaggggggtg ttcaggtgct ctgttgcgat gcagttacgg gtggttgtgc cgcgatgcaa 120
atatttccgt tatgaaaagt atacgagttg tatgaccttt agattattag gaaatttaac 180
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agattaatat agcggatatt tgcacattat gtataatctt tcgtcgaggc ttcctgtgct 300
tcatattaaa tttgtcctgg aaaaagggtg accattctaa ctctacatta atctgacaac 360
cctgttattc atttataaaa tatataattt a 391

<210> 28965

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E3

<400> 28965

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aagctttggc tgagtgccca ttattgactg ctttaacagt caacgatgct tctcttggga 120
gtggcattca agaagtcact gttaatcatg atggactgcg tgagcttcat attttgaagt 180
gccatgcact tagaatatct gtcagatgta tcccaacttc aaatactgtc tttgaggcga 240
acaggcatgg ctcatgtatc actgaactgt cctcagttgc ttgagttgga cttccaatcc 300
tgccataagc tttctgacaa tgcgattcgc caagctgcta cagcttgccc attgttggca 360
aaactagaca tgtcatctcg ttcttgtgtt actgatgaga cattgcgtga catagctagc 420
tcatgttcga gtctttctgg tctgatgca 450

<210> 28966

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E5

<400> 28966

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aagcttcggc tgagtgccca ttattgactg ctttaacagt aaacgatgct tctcttggga 120
gtggcattca agaagtcact gttaatcatg atggactgcg tgagcttcat attttgaagt 180
gccgtgcaact tagaatatct gtcagatggt cccaacttca aatactggct ttgaggcgaa 240
caagcatggc tcatgtatca ctgaactggt ctcagatgct tgagttggac ttccaattct 300
ggcataagct ttctgacaat gcgattcgct aagctgctac agcttgccca ttgttggcaa 360
aactagacat gtcattttgt tcttgtg 387

<210> 28967
<211> 464
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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atgatggatc ttacanctcc tgtttcttgt aatgtcgttg gctagtttga ggtccaggat 180
tttgaatntg tgtcctttta aaaanaatgt atgntgttgt aggaactctt tagttctgtt 240
ggaaatttta ctgaataatg gaagacatct taggttcaag gttctgaaat gggatcttat 300
atctcaatga gattatgatg gtggatatct gcacatcatg tctaattctt gtcgagtctt 360
cctgtgcttc agattaaatt gtacctggaa aaaggtgtac catcctcact ctacattaat 420
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<210> 28968
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-010-Q1-K1-E7
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gcagtactgc ctgtacgggc tctactgata cctcaagggc accctgagcg gccagttcaa 120
 caagatcttc taggctgtgt tggcgctgcc gtagtgtatt cgtccacac ttcgtactgt 180
 cggctgctcc ggatccttat gttgtgcttg atacacattc tactagttgt caggcgaaca 240
 ggtatctcgt atgtatattt gagacctgtt ataacgctgg ctgagctcta ccgtatgtac 300
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<210> 28969
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E8

<400> 28969
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 caactaagaa taaatcaagc tagcagc 87

<210> 28970
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E9

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 ccttcgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacggcc 300
 gtaacatcac cgtaaccag gccagtcctc gtggcggtgg cta 343

<210> 28971
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F10

<400> 28971

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ggagatggct gctgcacact cggatgggtg gttcatcagg caaaggcagg ttgctcagct 180
ggaacagaga gcacagcatg tcggttgggc aaccaacca ttaccacgc ccctatgtgt 240
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<210> 28972

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F11

<400> 28972

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cagaagcgat ggcgtcaaag aggctgctgc tggcgggcgt gtgcgtgggtg gcggcgggcg 180
tgctcgccgt gcggtcggag tcccacggcc tggaggactt cgcaagcagc gacgcgacgc 240
cggagatgca gacctttttc aagcccagagg ccgcgggcgt tccggaggcc ctggacgcg 299

<210> 28973

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D5

<400> 28973

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tatctacctc gcaaccatat gggcaggcgg tctttcatgt ctaaaccagt gtaccactt 180
gtcttccgga accctgtgtc cgaatcagaa gcgtgcagga tgcttgaggt tagtaatgcc 240
gggcgagcga caccaagtga tgacagccag gcttctcttc tgtggcgtcg cagcttggcg 300

agcccagagc tcaagttcca taacgcactg aacgaacttg ggaagatgga gggtttcacct 360
gaacggaaca 370

<210> 28974
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F12

<400> 28974

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cttcagggaa ggcaagggtg gggactggga aaaccacatg accaaagagc aaggacagag 180
gttggatgac gttttggagg acaagcttaa gggatctggc ctcgtgtttt gattaattca 240
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<210> 28975
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-F2

<400> 28975

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tccaagttct tggttgacaa gganggacgt gttgtggatc gctatgctnc aaccacttca 360
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tgcaaaagct gtagaaaaac atgtattaac aat 453

<210> 28976
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C1

<400> 28976

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tgggaacaag agcgacctaa ctgccaacaa agttgtggca actgagacag caaaagcatt 360
tgctgatgag atgggcatcc cgttcatgga gacgagtgcc aaaaacgcc ccaacgtgga 420
ac 422
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<210> 28977
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C10

<400> 28977

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cgcaagctgc ccttcagcg cctggt 326
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 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C11

<400> 28978

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tgctgcatat tctcccggtc cccctccgg agccaccctc cccttctccg ggacctcgag 180
taactttgga gtaccagtga tgcaaaggga cactagctct agcgatgttt ctgcttctca 240
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taatggacaa ccgttgcttg tcaatgatca gaacaagtat aaatcaatgc ttatccgtac 360
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<210> 28979

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C12

<400> 28979

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tggtttcttcg g 131

<210> 28980

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C2

<400> 28980

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acctaccgc agcaggctgg caccgtccgt aagaacggct tcatcgatc caagaaccgt 180
ccctgcaagg ttgtggaggt ttctacctgc aagactggta agcatggcca cgccaaatgc 240
cactttgtcg ccatagacat attcaatggg aaaaagcttg aagatattgc tccttcatca 300

cacaactgtg acattccgca tgtgaaccgt actgagtatc agctgattga tattttctgag 360
gat 363

<210> 28981
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C3

<400> 28981

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gaaagctttg aagagaaagg caaactttga agagagcaag agatttaaag aacagttgaa 120
ggcttacaaa agggaaattg cagagaaaag cgaggaatga taacttgga cggaggacaa 180
ggccgtatag gctcttaatc tgtgatgacc tgcccttgat tttgtgaagg atctgtcgag 240
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ttaacagctt aaatcttctt ccatgactac cgaatatgtt tccaatttgt tcatgcatgc 360
gtgcaggagt cctttgtatc aaatttggac aaccactct tgttgccctag tataagcagt 420
ttattggcca gttcctttta 440

<210> 28982
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C4

<400> 28982

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ccaaaaccag aacccaaacc tacaccacag ccagacccaa aaccttcacc acaaccaggc 180
ccagagccga aaccgaagcc agcgccacag cctgaaccaa aaccagaacc caaacctaca 240
ccacaaccag acccaaaacc tggaccacaa ccagacccaa aaccagaacc caaacctaca 300
ccacaaccag gccagagcc gaaaccaag ccagcgccac agcctgaacc aaaaccaca 360
ctgcaaccag atccgaaacc tgagccaaaa ccaacaccac 400

<210> 28983
 <211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C5

 <400> 28983

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 aggcttaca 129

<210> 28984
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C6

 <400> 28984

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 cactgccatg ttcaggagga aggccttctt gcattggtac acgggtgagg gcatggatga 180
 gatggagttc actgaggcag agagtaacat gaatgacctg gtggccgagt accagcagta 240
 ccaagacgcc acagctgagg atgaggagga gtacgaggag gaagaagagg aagatcctgc 300
 tgccaaagcc atcatcccaa gtgcttggtg aagatatgat gtcccttgta tcgctgctag 360
 tcagcactga gtcgtttgag gtgctcgtgg tgatgttagg tactagatgg gtgtcattac 420
 ttatgaatgc gatgttgctg tgacagaact 450

<210> 28985
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-C7

 <400> 28985

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cgccggagaa gatgggtcgc gtgatccgcg cgcagcgtaa ggggtgcgggg tccgtgttca 120
 agtcccacac ccaccaccgc aagggccccg cccgctttcg ctccctcgac ttcggcgagc 180
 gcaacgggta cctcaagggc gtcgtcaccg acgtcattca cgaccccggc cgtggcgcg 240
 cgctcgccaa ggtcactttc cgccacccat tcaggtacaa gcaccagaag gagctctttg 300
 tcgcagccga aggcattgtac acgggccagt tcgtctactg cggtcgccgc gccaccctct 360
 tcacggcaaa cgtgcttgcc cttcgcggga tccctg 396

<210> 28986
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-C9
 <400> 28986

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 tattagtgcac aaggtaaaac tattccttta ttgttaatta ttttctatat gcatgatggc 180
 agtaactaaa atattggatt gtgttggaca tacaacaagt tctagaagcc attagctaac 240
 cacataatca ctgaccttaa cccagtgacc atttaacaac gtatataata taaatttaca 300
 ttagatgctt tatttttgca ctgtagacct attgcacata taagtgtccc ttagaactta 360
 ngttgttatt ttcagtctca ttattccatt ctttactaaa gaat 404

<210> 28987
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-010-Q1-K1-D1
 <400> 28987

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 ccgcagcgca tcgcgcggga ggtggccacg gacagcatcg cgcgcgccgc gtcagcggc 180

tcggacagcc ggagcatccg gaagaggacg tcgcggcggc tcacgcagag cccccgctcg 240
 tcgtcggtga ccagggcccc tggcggcggc ggcggctgtt caccacacc aagaaacacc 300
 tctcgctgtc gttgaccaga agaaccaact gcgtgattcg cgttgctctt tggagactgg 360
 agacggcggc gtgactgcgt gcaggcagac tcagacgaca ccatgattct gcacg 415

<210> 28988

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D10

<400> 28988

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 ccaaggtgcg ccaggcgtcc aaagtcgtac cggttaagcgg ggcccggcaa agccgcggcg 180
 gcggcttcgc cgtgcggggc tctctgttct cgcccaagcc cgcggcggcc aaagacgcgc 240
 ggtcgaccaa ggtgcatgag ctgtacgtgt acgagatcaa cgagcggcac cgcaagagcc 300
 ccgcgtacct gtcctcatc gccaaacaga cggaaaacgc gctgggcgac ctgcctctct 360
 tcaccaacaa ggtgtacaac 380

<210> 28989

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D11

<400> 28989

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 gcattcaaag gttctgcgcc tctgaacctt tccgaccgtc ttcaccaggt ccttcgctgg 180
 gcccttgggt ctgtcgaaat tttcttcagc aagcactgcc cactttggta cggatacggc 240
 ggcggggctaa aattcctgga aagggtttct tacattaact ccatcgttta tccctggacg 300
 tccattctct tcttggtta ctgtaccttg cctgccatct gcctgctcac ggggaagttt 360

atcaca 366

<210> 28990
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D12

<400> 28990

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tggcgacgca gcggttcacg gcggcgctgg tggcctgcct cctcctgctc ctggcgctgc 120
cggcgcgcgg gcgcaacatc acggccatcc tcgccgggta caaggagtac aagctttaca 180
accagtacct gtcggagaca aaggtgtgcg acaagatcaa ctgcggaag tcaacttcaa 240
taaccgtcct gtggctgtcc aacgacccct tgacaaccct ggcttccaaa gccgggaatt 300
ggtttcccgc 310

<210> 28991
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D2

<400> 28991

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<210> 28992
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D3

<400> 28992

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agagctccaa tggcacgaac ggaggcttgg tgaagcccct gcctgctgtg aacgagaagg 180
tgaaaagggt gatgttctac tgctgacaag gtgaccactt taacaaccat tcacatgctg 240

tagctaactt ggtaggttc agtaggggga ttagattagc tttctacagg aacgaagagg 300
aaacgggatg cgtatttggga tcatgaacaa tcaatctgat agcgatcgct gtagaatact 360
cagaaatgcc tgtataataa gtctttagg ttcaaa 396

<210> 28993

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B9

<400> 28993

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gcaacctgag catgtgatga tgtttttact tgctgaaatg ggaacaagcg ggtcacttga 180
tgggcagcaa aggttgggtga tcaaaggaag atttgcccc aaaaactttg aagcaatcct 240
gaggagatac atcaatgagt acgtcatctg caatggatgc aagagccctg ataccattct 300
gtccaaggaa aatcgctctgt tcttcctttg ctgcgaacag tgtggatctt caaggtccgt 360
tgctccaatc aaagctggat tcgttgc tca agtcggtcgt cggaaggcat gagcatctat 420
atgtggatg 429

<210> 28994

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A1

<400> 28994

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ccatctgtgt attcgattgt aaggctgac tgtgtcacat gctagtgtg cggtcattct 120
atggttcac agactcatgc atcaaccagc atggactgta tgatcgatgg aagctgttac 180
tcctgtcatg atttgttcta agttaatcct aaggaaaaa ttgagctatt aggtgctgca 240
aaacatacat acaacggcag t 261

<210> 28995

<211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-A2

 <400> 28995

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 gaggaacat tgccaacaga agtagctctt tcccacatca acatcagtaa gaatcgtggg 180
 gggatcagag cagcatatct tgtttccaga ttaatatgtc gagcaccaga ctttgtctca 240
 gtcaatgcag cagggaacct tttaccacct gaatcattgg aagtcattctg taactccttg 300
 aagcaaggga cttgtaattt ggagcgagtg gacctgactg gcaacatgca tttatcaagc 360
 aatatttttc ctgcattcct tgaattcaag aagcatggaa agccaattct ggtagtacca 420
 ccaaacttga gcacttttgc tccatatgat gatgacccat ga 462

<210> 28996
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-010-Q1-K1-A3

 <400> 28996

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 aatgttgatg accgtaaaaa atctgggggt caggcattgc aaataagatc ttgctcccag 180
 tgtgccattt tggagtctgg tgtgctaagg cagcctatgc ggtcaagggg actgcttgc 240
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 atgcgagctt tgctgcggat caattctgga aaatccttca agtgggagag gctggattac 360
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<210> 28997
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-A4

<400> 28997

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attcatgaag tatcttcata ctgatcttgg tgtcgaattt cctgaaagat cttatggaac 180
tgattgtcgc atatatgtcc ctgatcatcc aaaaagcagg ttaacaatg tttatgagat 240
cattttttga tgaatttggt atagctcata tccttggatg gtgngtaag gctataatga 300
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<210> 28998
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 28998

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gtctggcgtg caagtcgggg ccgactggac ttccatcttc aagaaaagac acgtgtacag 240
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ctgccggatt atcgaagtgc gganggactt gggctcgtg gacaagtacg tgtgggcgtt 420
cggaaca 428
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<210> 28999
 <211> 462
 <212> DNA
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<223> Clone ID: LIB3067-010-Q1-K1-A6

<400> 28999

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 ggaccccggc ggccggcctc ctgtctctgt tgctctctcc gtcgcgggcc accccgtcac 180
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 acttcttgga cgtggacact ggcagcgatc tcacctggct gcagtgcgac gcaccctgtc 360
 ggagttgcaa caaggtgcc aatcccttgt atcgaccaac ggcaaaccgc cttgtaccgt 420
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<210> 29000
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-010-Q1-K1-A7
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 ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 360
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 aaca 424

<210> 29001
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-010-Q1-K1-A9
 <400> 29001

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acctctactc ggaatttact ttcagctctt gcatgtttgt ggttgtggcc atcatgtact 180
gattttccct tttcaacagt tgctgtgagg ctgtatcgtc tggagt 226

<210> 29002
<211> 457
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-010-Q1-K1-B1
<400> 29002

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tgaaaatcca gaggcagaag aaactaacac tgctgcagag gaaacacctg ctgtagagga 180
agcaagtgag actaccgagg aggaagaggc tgagaaacct gagatcaaga tcgaaacagc 240
tccagcagat tttcgtttcc caacaacaaa ccaaacaagg cattgtttca cacgctatgt 300
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caagtactat cgatccctgt gcccggtga atgggttgat cgcttgaacg agcaacgcga 420
aaacggcacc tttcctggac cttttgtatc ctacaat 457

<210> 29003
<211> 52
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-B10
<400> 29003

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<210> 29004
<211> 375
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-010-Q1-K1-B11

<400> 29004

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ggagagcgcc aagaaggcgc tggactgggc catcgacaac ctgctccacc acggggacac 180

cctcgctgtc gtccacgtcc tgcaccaagg cgcgaggag accaagcaca cgctctgggc 240

caagtccgga tccccgtga tccactctc cgagttccgg gagcccagg tgatgcangg 300

ctacggcggtg cgtcccgacg ccgaggtgct cgacgcgatc gacacggcag cgcgccagaa 360

gcagcttgag gtggt 375

<210> 29005

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B2

<400> 29005

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tgtacggcaa cggcagcacg gcggccggcc gggaggagcg ctacggcctc tggttcgacc 240

caaccgagga cttccaccgc tacgccatcc actggaccgg cgacaggatc atattctaca 300

tcgacgacac gccgatcagg gagatggtgc ggacggagtc catgggcgcg cagttcccg 360

ccaagcccat gtcgctgtac gccaccatct gggacggctc cagctgggcc acctcgngng 420

gccgctacaa ggtggactac aagtacgcgc nctacg 456

<210> 29006

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B3

<400> 29006

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 agttaatgta aaacgtgtcg tgattatcaa ggctgttgag cttattttct atatgattgt 360
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 cactgggaaa ttggatcact aat 443

<210> 29007

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B4

<400> 29007

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 aatgctgagt tctagagcaa ttgtggactg tgtttgtaaa tggaggcaga tgctagcggt 180
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 caagcgaaca gatttcagca cctcgtgtca tttttttttt ataaatttgt tattttctgtc 300
 aaaaaaaaaa aaaattatta aaataataaa agatgtaaaa cttaataac 349

<210> 29008

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B5

<400> 29008

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 agtgggcact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaga aaatataaaa taaaaaaaaa aaaaaaaaga aaagataaaa 180
 tataaaaaaa gttcacatga ttatcttgta ataccataca aaataatcta gtttaaagaa 240

t

241

<210> 29009
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B7

<400> 29009

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agtacctgtt attttacttt aatatgtctc tctcagacta gagcgccttc ttttacttga 120
atattggtga ctgcattggt ctttcacttt aaaatcgggtg actgcattga tcg 173

<210> 29010
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H9

<400> 29010

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ctgatcgatg caatgcaacc acgccactct gcaccgcaac aaattttcca acacacataa 180
atataccaag caattcccat ctgtcaaatt ttcttatttc cctgccatga ttttgggtctc 240
tatttttctt gctggctact acttatcttc cagcactagt aatgtacgta ctggctagta 300
actaggggat ccagtgggaa gacgtgtagc ctttagttgt acatgcatgt atgatgctgt 360
gtagcaccgt atcatgcaca ccaaaccaat gcatatgagt tataaatgtt ttt 413

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<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-F10

<400> 29011

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 aacccttctc tttgggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat 180
 cccgtgggggt tccggttggtg ctgaatatgt tgttgagtct actggtgttt tcaactgacca 240
 ggagaaggct gcagctcact agaaagggtg tgccaagaag gttgtcatct ctgctcctag 300
 caaggatgcc cccatgtttg tccgtgggtg caacgagaaa gagtacaagt ctgacattaa 360
 cattgtctnc aatgctagct gcacaaccaa ctgccttgct cctcttgcta aggtcatcaa 420
 tgacaagtgc ggtat 435

<210> 29012
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-B4
 <400> 29012

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 tttttcaatc tcatccaatc catgtgtatt gggaataacc gaacaaggcc ttagatgtct 180
 cgtgagcatg gatcggctat ggtgattagc atgaatgtgt tgtggtaact agttggaaga 240
 ctaaatttcc tgacgtttgg atgtttgcaa ctgctatgta ctataaagac tcctcgtgcc 300
 acagatgttt ttgttaaatt agtaacgctt ttgcatcttg t 341

<210> 29013
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-A12
 <400> 29013

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 ggaagtttga cttgtttggg attcaaacc atcgaatccc gctcaatcca catggattga 120
 gagctaaccg aacaagcccg taatgtattc cttggtttct gctttcccg acgcgtgtgt 180

gcggaagcca aactggatga ggcacttcaa attgatccca acacgtccga tgcactctgg 240
 tgcttgggaa atgctcagac ctctcatgga ttcttcactc cagacaatgc aatagctaata 300
 gagttcttta caaaggcaac cggatgtttt cagaatgctg ttgatgtgga acctgcaaata 360
 gagctgttca ggacgtcttt agacttgcaa atgaatgcac ctgaactgca tttggatatc 420
 caaaagcaaa t 431

<210> 29014
 <211> 233
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-016-Q1-K1-F10
 <400> 29014

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 ggggggtatct cagccccaag caaagatgca cccatgttgg ttgttggagt caatgaaggc 120
 aagtgcacct tggatgtgaa cattggttcc aatgctagtc gcaccacaaa ctggcttgcct 180
 ccacttgcta aggtcattca tgacaacttt ggcattattg agggcctgat gac 233

<210> 29015
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-046-Q1-K1-A9
 <400> 29015

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 tcttgatgtt ggccctgatg ccacaaaaac attcaacgaa gcattggaca ccaccaagac 180
 tgttatttgg aacggcccca tgggagtgtt tgagttcgag aagtttgcag ctggcactga 240
 ggcgattgcc aagaagctag ctgagcttac aaccacgaag ggtgtcacta ccatcatcgg 300
 cggcggcgac tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat 360
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<210> 29016
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-E6

 <400> 29016

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 gaaggcgaag gcaaaggggg tttctctttt gcttcccact gatattgtag tagcggacaa 180
 gtttgcagct gatgctgaga gcaagattgt ccctgccact gctatccctg atgactggat 240
 ggggtcttgat gttggccctg atgccaccaa aacattcaac gaagcattgg acaccaccaa 300
 gactgttatt tggaacggcc ccatgggagt tgttgagtt 339

<210> 29017
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-A5

 <400> 29017

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 ctgatggcca atgattg 137

<210> 29018
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-A8

 <400> 29018

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 ttccagggtc tcaagtccgc cgtcagcctc cccgtcgccc gccgcagcac caggagcctc 180

ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240
aagaagttcg agacgctgtc gtacctgccg tcgctgtcga cggacgacct gctgaagcag 300
gtggactacc tgctgcgcaa cggctggata ccctgcctcg agttcagcaa ggctcgggttc 360
gtgtaccgcg agaaccctca cctcncgtgc tactacgatg gccgctactg gaccatgt 418

<210> 29019

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-B11

<400> 29019

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ttccagggtc tcaagtccgc cgccagcctc cccgtcgccc gccgcagcac caggagcctc 180
ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240
aagaagttcg agacgctgtc gtacctgccg ccgctgtcga cggacgacct gctgaagcag 300
gtggactacc tgctgcgcaa cggctggata ccctgcctcg agttcagcaa gctcgggttc 360
gtgtaccgcg agaactccac ctncocgtgc tactacgat 399

<210> 29020

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F10

<400> 29020

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ccgttcctgg ggactcatat caatatatct gttatgtagc tcatccataa gacctatacg 180
acgaggggtc tgatactaac atgtttaatt acattgagcg taacgtgttc gacgtcaaag 240
ccttacgcgc tatacatagc taggatctac taatttccac tgcttattca aaatctttgc 300

aagcttcaat ctacacggtg tccaagttag aaacgcttaa cttgaacaag taccgttggt 360
 ctttattggg atgggctatg taacctataa tgggatcatc ctcgaaaaat tacggtacag 420
 cgtgctat 428

<210> 29021
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-035-Q1-K1-H12
 <400> 29021

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 gctggcgacg caggtgctca tcccggctgc ggcggccgtg ggcacgcgt tcgcggtggt 180
 gcagtgggtg ctggtctcca aggtgcccggt gatcgcgtcg ggggtgtggt tcgcgtcggc 240
 gcagggcgag gagtgcgcgc gcctggcgcg gtggcccggt gccatcctgg gcgggctgct 300
 cctgctggcc gcgctggcgg gcttcgtggg cgcgtactgg aaccggcgcg gcctgctggc 360
 cttctacctc ttcgccatgg cgctcgtcgt ggtgctctc atcgcgctcc tc 412

<210> 29022
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-034-Q1-K1-B4
 <400> 29022

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 ctacacaagc aatgcctaca gccctgtata agatgttgct gattcctgca gaactggagc 180
 tgccactaat gtcatttttg ggcttgctct gggttacaaa tcagtcatta tcccaatttt 240
 tgctattgcg tttagtatct tccttagctt cagccttgct gccatgtatg gtgttggtgt 300
 ggctgctctt ggaatgctga gtaccattgc cacaggcctt gctattgatg cctatggccc 360
 tatcagtgat aatgctggaa gcttaagtct gtatgggtgc atcttatcat ata 413

<210> 29023
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-010-Q1-K1-A11

 <400> 29023

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tgggtctctgg gctggcttag tcattggttt tattactgag tactacacaa gcaatgccta  180
cagccctgta taagatgttg ctgattcctg cagaactgga gctgccacta atgtcatttt  240
tgggcttgct ctgggttaca aatcagtcac tatcccaatt ttgctattg cgtntagtag  300
cttccttagc ttcagccttg ctgccatgta tgggtgttgt gtggctgctc ttggaatgct  360
gagtaccatt gccacaggcc ttgctattga tgcctatggg cctatcagtg ataatgctgg  420
aagc                                                                    424
  
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<210> 29024
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-C8

 <400> 29024

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gtgtcttctt ctaccttatg agcaagcgct cactcgtgag gattccacca cgggcctcta  180
ttatgactgc tctgccact tcctatgggt cggagagcgc actcgccagc ttgatggtgc  240
tcacgttgag ttccttcgag gcattgcaa ccctcttggt atcaagggtta gtgacaagat  300
ggaccagca gaacttgtgc ggttgattga tatattgaat cccgaaaaca gggctgggag  360
aataaccatc atcacaagaa tgggacctga aaacatgagg gtgaaacttc cacacctgat  420
acgcgctgtc ccgtgggccg gtcagatagg tacatgggtt actgacccaa tg          472
  
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<210> 29025
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-C5

<400> 29025

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agtgtgagat gtttccgctg aaccttgccc tacaagagcc cattggctct gctagcagtg 180
catctgaact gtcaccaaac ctatcataat gtttgtcgtg gaacatgttc cagctttcct 240
tctatcgaaa ttctggtctt tgctaagcag tttgcaattc ggaacccccca taaacctctg 300
actattgtac ctagagataa agtgaacgga tatcatgata gaaatgcatt tatgtttttg 360
tgatgtggta ttttactgtt attttaccct tttttttttt 400
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<210> 29026
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D11

<400> 29026

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gaccagtttc ggtcccgagc tgcgcgctg cctccgatgc cgcctcgtca agacctacga 180
ccagttcagg gagaacggct gcgaaaactg cccgtttcta gagatggaca gagagcacga 240
caacgtcgtc aactgcacca cccccactt cactggaatt atctctctga tggaccccag 300
taggagctgg gcagcccgtt ggttgagaat tggcaggttc attcctgggt gctatacact 360
tgctgtctcg gaggagcttc cagaagagta tcaagggatt tgtcaagaca tcaacgtgca 420
gtatgtgccg tccaagcgtg tc 442
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<210> 29027
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G12

<400> 29027

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tcttcaagta cttcgagaac tggtgccagg acgagaacag gcacggcgac ttcttctctg 360
ccctgctcaa ggctcagccg cagttcctca atgactggaa ggccaagctc tgggtca 416

<210> 29028

<211> 231

<212> DNA

<213> Zea mays

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<400> 29028

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gtggtggtgt gcttttgctt ttgtgtggtc gtattgtatg cgtaacctga cagatggatc 180
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<210> 29029

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B12

<400> 29029

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tcattctcac cacaaccctt tcctcccttc ctctcaatgc ccctccctgc aagacttccg 180
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cgctcggaggc gaggaggcga actgcggcgc gacgaacgag gacgaggtgt cggacgacgg 300
ctccctgcaa gccggcgggc ccggggagaa gaagcggcgg ctgaacgtgg agcaagtgcg 360
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ggcgcgcgcg cttggc 436

<210> 29030
<211> 453
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-039-Q1-K1-E6
<400> 29030

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tgagcgagaa cagcagctgt gcttaggccca gggcagggaa ctgagcctgg tcttcgatcg 180
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ccctaccacg gccacggcca ctagggttat agtacctttc gccttcagct ggctttaaga 300
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tcaagtcctt gtcagagccc agcttgataa acacttcctc gccatccttt ttaactgaca 420
gttgttgcat ggctgtagc tccttgtaa ttt 453

<210> 29031
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-006-Q1-K1-B4
<400> 29031

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atatgtccgg ttaaaatcca aacttgatgc acttcagaag agtcaaaggc agctgttagg 180
agaacaattg agttcactga ccataaaaga actccagcaa ctggagcaac aactggacag 240
ttctttgaag catattaggt caagaaagaa tcagctcatg ttcgattcaa tttccgcgct 300

ttagaaaaag gagaaagcac ttacagatca aaacggtgtc ctgcaaaagt tcatggaggc 360
atataaggag aaaaacatgg ctttgatgaa cgcg 395

<210> 29032
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F7

<400> 29032

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tgtccgggtta aaatccaaac ttgatgcaact tcagaagagt caaaggcagc tgtaggaga 180
acaattgagt tctactgacca taaaagaact ccagcaactg gagcaacaac tggacagttc 240
tttgaagcat attaggtcaa gaaagaatca gctcatgttc gattcaattt ccgcgcttca 300
gaaaaaggag aaagcactta cagatcaaaa cgggtggtctg caaaa 345

<210> 29033
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G10

<400> 29033

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acgtgtggac cttcatcttg acagacgcaa gcttcaagaa cgaggaggcc acggagcagg 180
tgggcaagggt gaagattgtg gcatgtgatt ccaaattgct cggacaatag gcctgtgtac 240
cctcgaggtc aaggaaggaa gcttttaagt gggcggtgc ggtgtctgtc tgcgcgctcag 300
ctgtacacgc ctaggtacc tgccgaggcg gtgtctgtct gcttcagctg tacacgccta 360
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<210> 29034
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-A8

 <400> 29034

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 ggtcacctgc acacctacag gttctgtgac aacgtgtgga ccttcattctt gacagacgca 180
 agcttcaaga acgaggaggc cacggagcaa gtgggcaagg tgaagattgt ggcattgtgat 240
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<210> 29035
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-H9

 <400> 29035

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 ctacattgag aaaactgatt ttcgccttaa ggactcaaaa gactactatg ggctggcccc 180
 tggtaaattct gtcattgctaa ggtatgcgtt ccccataaaa tgcacagacg ttattctatgg 240
 tgatactcct gatgatattg ttgaaattcg agcagaatat gatcctttga agactttctaa 300
 acttaagggg gttctgcact gggttgctga gccagcacct ggtgtcgaac cattgaagggt 360
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 gcttggt 427

<210> 29036
 <211> 103
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-G10

<400> 29036

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gggggggtct tttaaaacgc cggcgcggcc tatgatgctt tcc 103

<210> 29037

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G2

<400> 29037

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tcgaggggtg ggaaagaagc ggaaggggag acgagtcgag aggaagccct cgcctccggc 120
acacgccatg gtggagactc gccggagctc cgccgccgcc gccgggaagc gcacgtctcc 180
atcgccatcc tcttcgtccg tacctcccc gaagcgcccc aaggcggagt cctcggggtc 240
accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgcg 300
gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaagagtcga 360
taagccgtct tccgctgttg cagatagttc aaagc 395

<210> 29038

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G3

<400> 29038

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ggccgtgttt acaaagccaa attcggatgat cagaaggatc tggctgtaaa gaaaataaac 180
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ttgctggcat atgaattcta ccgaaacggg tctcttcattg atttccttca tctgaaagat 360
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<210> 29039
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-G4

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acacgccatg gtggagactc gccggagctc cgccgccgcc gccgggaagc gcacgtctcc  180
atcgccatcc tcttcgtccg tacctcccc gaagcgcccc aaggcggagt cctcggggtc  240
accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgcg  300
gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaggagtcga  360
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<210> 29040
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-G5

 <400> 29040

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gttcgatggt cctagcttcg tatctgaagg cagcaacatt ttcaagacca ggattgaagg  180
tgcaaacatc gctgatacag ggcttacaga taaggatgac ttaattgtca ttcattcgga  240
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ctggttgagg ggatcttata agaagtctac cggcaaacta gtcattccct tggagaatgg  360
aaacagtctt actttgcaac ttga                    384
  
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<210> 29041
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G6

<400> 29041

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agtgcctccg cettaccgtc cccgctgatg cagctgccgt cgacgttcgc ggagctcgtc 180
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atgtatcttt atggaggtca agtaacatca tggaagaatg acaatgggga agacttgcta 300
tttctcagta gcaaggctat tttcaaacct tcaaaagcta atgctggtgg tttaccaatc 360
tgctttcccc tatttggatc aca 383

<210> 29042

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G7

<400> 29042

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gctgtgctga acagcaggaa gacgccgcag gtggtggccg tgctggtggt ggaggcgctg 180
ctggcttcgt ccgcgtcggc ggcgatcacc tgcgggcagg tggggtcgtc gctagcgccg 240
tgcacccctt actcgactgt gagggccagc tcgctaccct cgacgtgctg cagcggcgctc 300
aagagcct 308

<210> 29043

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G8

<400> 29043

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ttaataaaatt atataaaaata tttatatata attcatatatt attattatgt gggggacctt 180
 tttttacgtg tgggtatattt tttgattcat tgcttacttt taatttttta ttaattgtct 240
 ttaattttat tgaatctata tttctttttt aatcttttgt tgtttattat ttagtttgta 300
 cttttttaat cttttttagt aatatttata ttttatcttt tttgtttttt tagttatttt 360
 gttttgttta tttatgtttt tttattttta ttattatgta tttatttttg 410

<210> 29044

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G9

<400> 29044

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 ggctcaagca gccactctac cgtcacccat gggaggatgt actgtacacc aagtgagaaa 180
 gccattcttt gcaaggcata ataaagtatt attatcgctt agagcttcca gttgcctagc 240
 ttccagttgc ctgtacactt cattaaatcg agcacttgca aaatagaaaag ccagagagag 300
 gaagacgaac atcactagac agcactagat tgcgtgttat atcgtgagtt gcaaattc 358

<210> 29045

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H1

<400> 29045

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 gcagggccaa atcgaacttg atagtgtggt ctatatattta gttaaagagg gctcatccaa 180
 aatttcagtt gatggtgtat tcgctgtggt tgatgttttag gatcatgaat ggagacatgc 240
 tattactgca gctggatctg gatgcatagc tgttttgaca gttgaaagat acttagatgc 300
 ctattatct 309

<210> 29046
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H10

 <400> 29046

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 aaggataaat aaaaacaatg cgtattacca tgaa 94

 <210> 29047
 <211> 226
 <212> DNA
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 <223> Clone ID: LIB3067-009-Q1-K1-H11

 <400> 29047

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 gcgctatggc ctagactgat gtgctcaagg ttgtcatgtc ctgtgagggc tgagtctgag 180

 ctgtcatgct ggtcctgggc aagatgttag ggtttaagtg ctacca 226

 <210> 29048
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-H12

 <400> 29048

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 ggtgtgctgc gtacagtgcg tagtaccatg gcgaagaaag tggccactct gctggccctc 120

 aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgcctc 180

 agtccaggcg gcggaggcgg tggcgggtgga ggatctggtg gtggtggtgg tggaagccgt 240

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<210> 29049
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H2

<400> 29049

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cccgccggcg agtacgggta ctccgagacc gaggtgggtca ccgccaccgg cgagggagcg 180
tacgagaggt acaagaagga ggagaaggag cacaagcaca agcagcacct cggcgaggcc 240
ggcgccatcg ccggcgggcg cttcgcactc tacgagaagc acgaggcgaa gaaggacccc 300
gagcacgcgc acaggcacia gatcacggag gaggtcgctg ccgctgcggc cgtcgggccc 360
tgcggtacg tattccacga gcaccacgag aag 393
  
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<210> 29050
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H4

<400> 29050

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tggagccggc gaggaggaca agaagcccg cggaggcggc gccacatca accttaaggt 120
caagggacag gatggcaatg aggtgttctt tcgcataaag aggtccacc agctgaagaa 180
gctgatgaac gcttattgtg accgccagtc tgtggacatg aatgccattg cgttcctgtt 240
tgatggccgc aggcttcgcg gcgagcagac cctgatgag ctggagatgg aggacggcga 300
cgagatcgat gccatgcttc accagaccgg aggcagcggt cctagcacca cctaaaagca 360
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tctttt 426
  
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<210> 29051
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H5

<400> 29051

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ctcggcgggg cgctgcctca cggcctctcg cggggctccg tcgctggta tcgtcgccca 180
ggggaaggta aagaagtacc gccaggatcat attgacagat gacatagaag aggtggggaa 240
gaaaggggat acaatgaagg tgcgagctgg attctaccgc aacttcttgc tttccaaggg 300

<210> 29052

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H7

<400> 29052

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atgtaaaccg gaatggatg aacgtatcta ccgattccag tgaagataaa gattcaaaca 180
actcagatga gaagtgtaac gagtttgcac ctgctgagtc ggaggactcg gtgtcaggtg 240
ttctatatga tatgtggcaa aaggaggta tttctctaag gaaggcgtgc cacgaaaagg 300
atcagagcct gaaagacaag gacgacgcaa ttgagatggt ggcaaagaaa gtagatactt 360
tgacaaaagc tttggaatca gatgccaaga 390

<210> 29053

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G1

<400> 29053

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gtacctgccg actgaattac ctggatgcct ccaaggcagt gtccatagac gagtgctagg 180

accccaactg acctcatttt ttaaagccaa gtacaccaaa agacaaaaaa aaaaggctga 240
 atccccattc cttgctgccc acacaatcgg caaccctagc ccagatgccc attttattgc 300
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<210> 29054
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-H8
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 tcactgcacg tgcagctgaa ctccctaagtt taaatcttga aaccatggag aagttgaagg 180
 aatcagaaga gctattggaa cgatgccttg cagtcaagaa aaagattcta cctgaagatc 240
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 aggatcggga tgtaaacagc gatgtaactg catattacct cgcaaaagca aaacagttca 360
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 aaat 424

<210> 29055
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-D4
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 aagcgcgagc tcgtcttcaa ggaagacggg caggagtacg cgcaggtgac ccggatgctc 180
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 gactaccagg acgacaaggc cgacgttatc cttaagtaca tgaacgacga ggcgcgctg 360

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408

<210> 29056

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D5

<400> 29056

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ttttatatta tcagaggaag acaaatacatc tgagcctagt cttgaatact ggtttaagtg 180

catcgatctt gatggtaatg gtattttaac ttacaatgaa atgcattttt tctatgatga 240

gcaattgtcc cgaattgagt tcattgttta aagaaccttt tggtttttgg tgacattttt 300

atctcagatt a 311

<210> 29057

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D6

<400> 29057

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ctcatagctt acgactccga ggcacgcgtg atccgctggc agaaggctaa agacaacttc 180

tctgatgagg tttctactgc tgtttctcag aagcgccgtg cttctggtct tgctctctctg 240

aaagccccta atatggactt tgatgatgag aagcctatca tcaatctggc ttgtaacaat 300

ttgaccaact tatacgcatt attacttacc cttctctgat atgccattat aacatctttc 360

<210> 29058

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D7

<400> 29058

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<210> 29059

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D8

<400> 29059

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gcagagaata ccggggcccat taagtcagct acacaggact ctaaagggtga agatcatgat 180

ataatgagct ttgggtactgg gaaatgcgcg tttgccaaagc gcctatatca tgaataggac 240

caaaacattg ttagcttcga ggcagtcgta ccaaaccatt gctatgcaaa ggggactttg 300

aatagaccgt ccc 313

<210> 29060

<211> 63

<212> DNA

<213> Zea mays

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<400> 29060

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<212> DNA

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<223> Clone ID: LIB3067-009-Q1-K1-E2

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cgaaggggag acggttggtt gagttgaggc agccagccag caagccagtg gcggggcgctc 180
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<210> 29062

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E6

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<210> 29063

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E7

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cgtcctcacc tccatcggcg agaagctcga ggcccacgaa ttcgacgagt ggatccgcga 420
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 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-E8
 <400> 29064

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 caacccttat gaaaaagttt ggctttctaa agatgtagta gaagtactca tttattccct 360
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<210> 29065
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 <212> DNA
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 atcaccaccc tagcctactg gcaggagttc gcgcaggccg tcgagaagaa gcagggttgcg 300
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<210> 29066
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<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F11

<400> 29066

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<210> 29067
 <211> 118
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F12

<400> 29067

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<210> 29068
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F2

<400> 29068

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<210> 29069
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F3

<400> 29069

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aaccttttgc agtactagca acacgcagaa gattagtacc gggaaatgcg 110

<210> 29070
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F4

<400> 29070

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gttctacgac aagaaggagg ccgccaagct cgccgccag gccgcagcct tagctgctgc 180
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cttgaggcca cttggcagca ttagcaagaa gaagggtgcag cttcatttga agatcaagaa 360
agacaagaga aaagctagga agaattggaaa gttttctttt aagaagtaga cgagtgtatg 420
atgaa 425

<210> 29071
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F5

<400> 29071

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taaaggaata atgaatgtag tgtttttg 88

<210> 29072
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D3

<400> 29072

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 cggcgccact gcgacagcaa ccgccccgc ctgcgccgca tcatgcggag ccacgtaatg 240
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 cgacgtcgca gttacagctg ccggtgcttt cgcaagcttc ggtgagcgct gctgccaacg 360
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<210> 29073
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 <223> Clone ID: LIB3067-009-Q1-K1-F6
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 cgtttcagtt tgcttatagc cccgaagact cttttcttcc gtagtgtcgg aatgcccaag 420
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<210> 29074
 <211> 385
 <212> DNA
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 <223> Clone ID: LIB3067-009-Q1-K1-F7
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acggcgctctc ctgggcgcga gagctcgact acttcgccgc ccgccctttc ctcggaaga 180
gcttcgtcaa cggataccac tggctcacac ctgatgtctg aaaaacacac aaacacacgc 240
gcgagagtca tgagacacat cgattacagc aaaccagatt aatttattcg tacagcataa 300
agacagaata agacaccatt tacaagccac tgaatatgta tagtgatcca ctgggcgcga 360
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<210> 29075

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F8

<400> 29075

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cggagtagcg ggccggccga atcggcaagg ggagaaacgc agcagcaagt tttgggcgtt 180
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cagggtggtc acctgtaata acctctcctt catctccgag attccttcct ttcattctct 360
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<210> 29076

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B2

<400> 29076

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taactccaag atcctatcca aggtaatcga gtactgcaac aagcacgtac atgccgccgc 180
cgccgcgggc gccgcctcga aggccgggtc cgacgacgtg ggtgccgact gcgccaacag 240

caccgccgtc tgcggtgagg acctcaagaa ctgggatgcg gacttcgtca aggtcgacca 300
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<210> 29077
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 <213> Zea mays
 <223> Clone ID: LIB3067-009-Q1-K1-B3
 <400> 29077

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 ggggggat 68

<210> 29078
 <211> 421
 <212> DNA
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 <223> Clone ID: LIB3067-009-Q1-K1-B4
 <400> 29078

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 tgttcggccc gggggcggtg gaccccaagc tggccgctgg tggcgcgccg gacgccggcg 360
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 <212> DNA
 <213> Zea mays
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<400> 29079

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<210> 29080

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B7

<400> 29080

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ccgggtcggt tcttctgtca gagaacggtg gccagcgcag tcgaactggt gggctcagcg 180

ttctgctagc agggcccgac ggccgtgtcc tgggtggctg tgttgccgga ctctgacgg 240

ctgcttcacc ggtacaggtc tgctgtcgct ctctggatcc tgctggctga aaaatcacta 300

ccttctggt tccattcatt tcgtcggtgg agcgtaaatt acagagcggt gtcggtcgct 360

gactgtatct ccagatttcc tcgtcgacgc cactcaattg cc 402

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B8

<400> 29081

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cttcttgaca ctctgctgga gaacacgttt tataaagcct ttgattgctg cggttggatc 120

ctgctgtcta gttggtgtca tatggagagg aacactatat gtggctaata taggcgattc 180

cagggtcgtt actggcgctc taggtagatc aaacaagatc gtggctgagc cactcacaag 240

agatcataat gcaagtaggg aggaggtcag gcaggagctt atatcccgct atccagatga 300

ttctcaaatt gtggttctca agcatggtgt ttggcgcatc aagggcataa ttcaggtttc 360

aagaacaatt ggagatgctt acttgaagag gcgggaattt gctcttgatc catctatcac 420

<210> 29082
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-B9

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 gtgcgctcgc tcaacagccg cgcgtcgctc ggcggcgacc ggcaggccac ctgcaactgc 360
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<210> 29083
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 <223> Clone ID: LIB3067-009-Q1-K1-C1

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 tacacggtag ccggcggcgc caaggctcgtc tccggcgctca gtctcagccc ccgcagcacg 240
 cgcgggtacc tccggaccag ccttcggtgc aagcaggaga ccgtcaggat gaggggcggc 300
 gcgtcggcgc agaagaggtc cccaagcggc aagttcgggg gcggcgctcg cggaaggggc 360
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<210> 29084
 <211> 194
 <212> DNA
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cgctgtattc atttatctga gggggacttt tactcaatgc tcatataatg ctcatactct 120
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cgatttttct ctca 194

<210> 29085

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C2

<400> 29085

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ttcgtcaaac attgggtgaag tcgcttctat attcctaact tccgccctgg gcattcctga 180
gggtttgatt cccgtccaac ttctatgggt caatctcgtc accgacgggc cccccgcaac 240
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cgactcactg atcactccct ggatcttggt ccgctacctg gtaaacggtc tccctcgcgt 360
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<210> 29086

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C4

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gcgcggggcg cgggcagctt gtaggcgttc gatcggccat gtagggcaac tatacatctt 240
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tgtatgtgta tgcccatggc gcgcgcgcgc ggctctgggc gagtcacagt agagatgcaa 360
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taaaaa 426

<210> 29087
<211> 427
<212> DNA
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<400> 29087

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ccttatgcag acagcgtga agaactctgaa tgaacatcct gatgcttggc cattcaaaga 180
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agccgacatg aagagaatgt tcagcaatgc aagaacttac aattctccag atactatcta 360
ttacaaatgt gcgacacggc ttgaaaactt cttctcgggc agaattactg tactgcttgc 420
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<210> 29088
<211> 433
<212> DNA
<213> Zea mays
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ttaaaacggg gttaaactctc aggaaatata ttcaatattc ttttcaatct gaacaagtcc 420
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<210> 29089
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D10

<400> 29089

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gttgtcaacc atcaagtgcc tgactcgagc cttatagtat gtaatcttag agatctttct 180
tttc 184

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<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D12

<400> 29090

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B10

<400> 29091

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ggagttggca atgctaattt 260

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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-D2

 <400> 29092

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 tgggcgacga cctgaaccac cgcaacctga tggccatggc gaagcggttc ggcgacatct 360
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 <223> Clone ID: LIB3067-008-Q1-K1-H12

 <400> 29093

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 <211> 305
 <212> DNA
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 <223> Clone ID: LIB3067-008-Q1-K1-H2

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 aattttgcta acctggttta gcagcatggt ggtggacagc gtctggtata gtgcacgcgc 180
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<210> 29095
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 <400> 29095

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<210> 29096
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 <212> DNA
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 <223> Clone ID: LIB3067-008-Q1-K1-H5
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 aaacagagtt ttgtgtgtat gtaccaacaa ctaaaatgta aacacgacat tatcatagtt 240

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t 301

<210> 29097
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H6

<400> 29097

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<210> 29098
<211> 313
<212> DNA
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<223> Clone ID: LIB3067-008-Q1-K1-H7

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<211> 446
<212> DNA
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<223> Clone ID: LIB3067-008-Q1-K1-H8

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cggctctggg tgaagaaact agatcatctc ttttaaggat gaaagaagag gacttcattg 420
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<210> 29100

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H9

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gcatctcttc taaggccatg tccatcatga actccttcat caacgacatc ttctagaagc 360
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<210> 29101

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A1

<400> 29101

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<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A10

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aagagaagca cgttataacg agcaagagaa cttttacatg aatctgtcca acatgcttct 180
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<210> 29103
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A12

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caacttgcta cacggttcca attcaattga ttaccataca ctcatcctc gtggcgcacg 180
ccactcacca tacgcagtgg acaaaccccc acaacttatt accaat 226

<210> 29104
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-A2

 <400> 29104

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 ccggtggggc gacgccgccg coctaagcca ggtgctgagg ctcttggttg tctcttcgcc 120
 agcgaggagc acccagcagg acaaggcaac aggctggttg aatatggacc aacaaggcat 180
 gcatgaccat gaaagggtcc acgttggttg atttgaagtc ccgccttcac cggattccag 240
 ctacgacaac cctgttcctg ggaatgaaga cgaatgccgg gagccccac tgatgccacc 300
 tcatctgcag cacacgctgc tgagcttacc accaagccaa gaacagtcga gcccgctgcc 360
 ccagccccag accgtggttc tgaaccaact ttacatcgag atagagaaca 410

<210> 29105
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-A3

 <400> 29105

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 tcctgtact ctgtccgtg atctggtctg gtgagatcgg ggatcggacc gtcgactcgg 120
 cgagacatgg cggactgggg ccccggtgtg gtgggcgtgg tgctgttcgt gctgctctcg 180
 ccgggectgc tctgcgagct gccgggcacc caccgccacg tcgacttcgg cggcttccac 240
 accaacggca aggccatctt cgtccacacc ctctcttct tcgccgcctt caccatcctc 300
 acgtcgcgc tccacatcca catctacacc ggctagctag ctagctagtg cggagcacat 360
 gccgacggtc tggactcgcg gaggtctcag atcagaaagg aacgccggcc g 411

<210> 29106
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-A4

<400> 29106

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ctctcatggc gaccaccagc gccaggagge cgagcggccc ggtgctctcg gccgcgcaact 180

accgctccgc ctgcgcgacg cgcgtctcgc tcgcggggca gcccgtcagc gtcagcgtgt 240

cctcgctcgc gcggggccgg cggacctgca tgtgctcgcc gaccaaccac ccgggctcgt 300

tccgctgcag cctgcacaag gagcgcgtca agccggctgc cgggccccac ggccacgggc 360

acgggcacgg gcacggcaag ccgagctcgc cggcgctcggc cgtcagcccg ctgtgcg 417

<210> 29107

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A5

<400> 29107

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cttgcctgggc ttgcagctgg catggccatc ggcattgttg gtgatgctgg agtcagggcg 120

aatgcacaac agccgaagct ttttgtgggc atgacacctca tcttcatttt cgcagaagcg 180

cttgcctctgt acggtctcat tgttgggaatt atcctttcat cccgtgctgg tcaatcccgg 240

gcagattaag tgcactacca ttctgcaatt accgtactgt ttattatgct attctaagag 300

aattgaaacc ctatgccctt gtctagttta ttcttgttac catgtattaa tgaaacaatt 360

tgtagctgaa ggaaggtgac acttccaacc atgttggttt tggc 404

<210> 29108

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A7

<400> 29108

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tacgtccgag tcgtcgcacg aggtcccctc gattcgccgg cggcggcgcc accaaccaag 120

ctcatacatc tgaattgact agtccaactc agggatttct ttggggacca atcaaactca 180
agaactaagt ttcatgtctg atctcgacgt ccagcttcca tctgcttttg atccgtttgc 240
agaggcaaat gctgaggact ccagtgtctg tgctggatca aaggactatg tgcacgtgcg 300
tattcagcag cgcaacggaa ggaagagtct gacaactgtt catggcttga agaaagagta 360
cagctacaac aagatcctca aggatctcaa aaaagagttc tgctgcaatg 410

<210> 29109

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B1

<400> 29109

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cacaacatca tttgcattga ggatcttggt catgagatca tgactgtcgg cccacacttc 120
aaggaggcga acaacttctt ttggccattt aagctgaagg caccgctggg aggtctgaag 180
aagaagagga accactatgt ggagggtggt gatgccggta accgtgagaa ttacatcaac 240
gagctcatca aaaggatgaa ttaggttcac gatcaagctc tattgtgttc taagaaactt 300
tctgtgctct cccaatttta cattattagg aagcggatga atatgcatgc agttttgttg 360
tttggaacta gatgtgtatg gaagaaacat gatctttttt ctcggaagtt t 411

<210> 29110

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F4

<400> 29110

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gtgcaggatg actatctaga ttgttttggg gatcctgaat tcattggcaa gatcggaact 120
gacattgaag actacaaatg ttcctggcta gttgtgcaag ctcttgagcg tgctgctgag 180
aaccaaaaga gcattctgtt tgaaaattac ggaaagtctg atccagcgtg tgttgcaaag 240
gtgaaggact tgtacaaaga gcttaaactg gatgagggtt tccatgagta cgagagggag 300

agttacaaca agc

313

<210> 29111

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F5

<400> 29111

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gggttttgct gctctccgac cccgagctcc gaaggccgca gcatcaggcg cggccccct 120

cgcgtgtgac cgagatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc 180

tcgtcatcgt cggcgatggt ggaactggta aaactacatt tgtgaagagg catctcactg 240

gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcattcg taggatttca 300

tcactaactg tggatatgac aggttctaac tgc 333

<210> 29112

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F6

<400> 29112

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aagacagaac taaaagaaag gtggtggggg tgatctggta aggcttggt ctgccgaaat 120

attgtggggg aggagtgatt atgtcggttt tgttttcacg tttatatgtt ttttatttat 180

cttgttattt ttttttgata ttttcttctt gttgtttatt atatttttta tttt 234

<210> 29113

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F7

<400> 29113

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tgaaggtggt gagcctgcac ccgaggaagc acaataggat tctttgttca cacaagctag 120
gcacatagcc gtacgtacca ttccgtatgc ttagttgccg tattgttggg aactgtttgt 180
gcgtgtatct ctgttagacg ttccccgctg gtttaggctg tgttttatat tgctgttttg 240
tctttttgaa tgttgagacc atacaactgt cgatcattat ctcataattg ttgtaaaaat 300
actataattg ataataaat tttatcttct tgggtttttt ttatctttta cttgtttttt 360
atcttt 366

<210> 29114

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F8

<400> 29114

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cgtgtgtaga gaagattgca aaactgcagt atgatggatt ccactattca tcaaccgaga 120
tcatggcgcg cttcaatcgt ggctactctg atggggaatt gatccgttat ggctcgtggc 180
tgtggagatg tggaactcat tggttatagt gtgcttcaat catgggtcat ggcatgctg 240
atggaactga tttgttacca aggtttaagt ttctgctacc gttggacggc ctgactggta 300
ctttgccctg ttgactgttt gagaacgtac tgcctagggt tacttaatac ttgctgcttt 360
ttgacgggtc tgtacatatt gtttgatatt ttatctct 398

<210> 29115

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F9

<400> 29115

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acgctctccc ccgtggaacg ctcatggcc gtggccgtct cgggtgtccag ctgcagccgc 120
gggcacctga ccagccttcg cccgtccctc ctgcacgtag ccggcgcgcc agcagcctgc 180
agctccatgg atcgcccgtc tctccttcga tctggtaacg ccagtaggca gtagtagcta 240

gagaacaacg gaggaatatt atgtaacatc actgtcactt gtgcgtgtcc aagctagggt 300
 ttttatgtag agagaagcgg agcttacgag cgagacag 338

<210> 29116
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G1

<400> 29116

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 aattggttca gcgagcacat acatgattta tgacattgca tgtgctatct atgataaaaa 120
 aaatcggatg atcatgtcga atttgaatga gtat 154

<210> 29117
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G10

<400> 29117

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 gaagctgggt ggccttggtt tatagtctga agggattcta cttcggggat cttgcagagg 120
 tttacctttt ctcatgctcc cgtgcttagg gttttgaatt gggcatcgag gccatcttca 180
 tactggtgac agaagaaatg ttttgtgtat atttctgtcc aaactcggct gtagctttca 240
 gagtttgtga atagttgaca tgtttatatg gtctgtgaag ttttgaaatg tttaatgggc 300
 cttacagggtg tgtacctttt ctcatgtact ccgcgcaaaa ttgtacaaca atgtttaatg 360
 ggccttatac gtggaccctt c 381

<210> 29118
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G11

<400> 29118

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tgaagctggg tggcctaggt ttatagtctg agaaggattc tacttcggtg atcgttgcat 120
aggtgcacct tagatcatga ctaccgtgct tacggttttg aatagggcat cgagagtctc 180
ttcatactgg tgacctatga aaagttaatgt gtatataact gtccaaactg ggctgttgct 240
ttcatagttg gttaatcttt gacatgttta tatggctctgt 280

<210> 29119

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G12

<400> 29119

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gccgggcaac cctaccaa at cggccaaagg catgggaagg gacctgaggg tccacttcaa 120
gaacacaagg gagacagctt ttgcgcttcg caagctgcct ttgaccaagg ctaagcgata 180
ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact gtggaggtgt 240
tggctgcacc gcacaagcaa agtctcgcca ctccaatggg cagggtcgct ggctgttaa 300
gtcagccagg ttcatattgg atttgctgaa gaatgctgag agtaacgctg atgtgaaagg 360
cttgagcgtg gacaacctct atgtttcaca catccagggtg aaccaagccc agaag 415

<210> 29120

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G2

<400> 29120

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agggctaaag gagagcaaga tgaagcttat ctacagtac ctacaggatc aggatgtggc 120
atctcggaag aacatgacgc atttgaatga gtatgcgttc ggggtgatgc aattataatc 180
ccattatctt atgcca 196

<210> 29121
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G3

 <400> 29121

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 ggtggttaca acggcgggta tcggggacca gctgctgctc cagcgatcga agaccaggct 120
 cagttccctg ccctggccta agcacagctc gtgttctcgc tcaagattgt gtcacttttg 180
 cggagtgcgt cagtcagtcc tagtggtggt gctcccaagc ttgctttccg gattatgtgt 240
 atccaactat ttctgatatt atgtactggg gtgctcgtga ttgcaatggg ttgct 295

<210> 29122
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G4

 <400> 29122

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 tgcaccgaca cgctgcgtc gagcccgccc gagccgccc ctagatccat ggcgcggctg 120
 ctaccgacgg ccgcggcagc ggccatcgtg gccgcgtcc tgggtggcggg cctgccgggc 180
 gcccgggcgg cgtctgcctc gccggcggcg gacgacgcgc cgtcgtacag gaaccacacc 240
 gctggcggct gcgatgggtg gttcttcgac gccaacacca acgccttgtc cgggaactac 300
 tccgactggg cc 312

<210> 29123
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G6

 <400> 29123

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 ccatctggaa gagatctctg atttacggga tggacggagc caagccagtg gcggccggga 120

agcaggacct ggaagaggcg ctgctccgta tctgtcagca gcaccaccac cagtccctct 180
 gccaacgaca acaaaccgag cgtgcaaaga aggacgcctt gaagagcgcg gtgcgggtcg 240
 gcgatctcct cgtggacacg gtcgacggcg ggggtcggga gctcttcgtc aacgagaagc 300
 gcattgagct tgagggccgc gcgctgctcg gtacgatcgc gcggt 345

<210> 29124

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G7

<400> 29124

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 cgcgcgcg cgctctcta ggccgcggaa cggaagctag gtgcgtcaca cgccgtggcc 120
 ggtcgcggtc accggaccgg acgcacagg ggcgcgtacg tgcagtcac ggccatgatg 180
 gtctctgtcc tcgatgtgct ggcgc 205

<210> 29125

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G8

<400> 29125

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 aagaccccg tggcgtgat gcccatcgcg aagcctctcg ctggaaagaa gctctgcaag 120
 cggaccctca agctcgtgcg acgagcctct gaggccaagt gcctcaagcg cggagtcaaa 180
 gaggtagtca agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt 240
 tctctattg atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac 300
 atatatgttc catcaaaaga ggatcttgcg acc 333

<210> 29126

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F3

<400> 29126

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agggacaatg cctgccctcg ccaagccgcg ctcccgcacc gccaaagccg ccgcggtccc 120
gaagccgaag cctgccgcg ccaagccgaa ggcgccacc gctggtgct tccaccgcg 180
ttacttcgag atgatcaagg aggctatcac ggcgctcaag gagaggaccg gctccagctc 240
gcaagcgatc gccaaagtatg tgggggacaa gcacggcgcg tctctgccgg cccatttcat 300
gaagatgctt tccat 315

<210> 29127

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G9

<400> 29127

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tgttttgtat agaatcacag aggattccaa gtataggag tgggggtggc agatctttca 120
ggcttttgag aagtacacaa aagttgattc tgggtggttac acatcattgg atgatgtcac 180
aagcctacct cctccacga gagataaaat ggaaactttc tttcttgag aaacattgaa 240
gtatttgtat ttactgttg atgaaaacaa tacccttccc ctagataagt atgtgttcaa 300
tacagaggcc catcctcttc cagttatgcg gtctgcagaa caggcttcac attctgtgta 360
gtttcccaag tttatagctg ttgtaccatg gtgagaagta cagatctgtg acaaatatac 420
ttgacaacat agttggagga 440

<210> 29128

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H1

<400> 29128

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gtgggaccag tacgggcacc tcctgtgcta catcacgtac ggcgtttaca aggacagggc 120
catgtaccat cgcgccttct gcgactgcta ctgtctggct cgcttgctac aaacacgcgt 180
ttagttaatt gtacatgtcc tgcgctcgct tacgttcatg ctctgtggta tgtactccat 240
gatac 245

<210> 29129
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-008-Q1-K1-H10
<400> 29129

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agtgaggaag aagagtcaac tattcgcatc cacgatacac ctcatctagc aggtgtactt 120
catatatgac tcatagtgca ttaatatgac ctctaattgg ataaatggct ggcattctctc 180
tcttcttgat gacttcaaatt ggagttaaca tcatactgat ntgagatcct tcatccaatg 240
tgcatcggat gacgctcgga cttacttgaa tactatgtaa cagctcacia taaattgcgg 300
tcttatatat catattgtaa tcgaacttct gatgatggat tctgttgaga tgattgccat 360
ggatttttat aaaccatttt gaatgtgtga caagaataac a 401

<210> 29130
<211> 268
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-008-Q1-K1-D4
<400> 29130

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aacttttgat gagaagcaag ccatggagga tgctattgag ggaatgaatg gactggactt 120
ggacgggagg aacatcactg ttgataaagc tcagccacia ggacctggtg gagaccgtaa 180
tggtgaccgt gattatgacc gcgagcgtgg atctcgttat gaacgtgggc gtgactatgg 240
tggtgggcgt gcaccgcgag gtggtggt 268

<210> 29131
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D5

 <400> 29131

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 cacactgaac tgggtactttg ggaacaaccg gtccatgctt gtgtcgaatt gcctgttccg 120
 gatgggtggc gcggccatcc tgctctcgaa caggcggtct gacaggcgga ggtccaagta 180
 tgagctggtg cacacggtgc gcacgcacaa gggcgccaac gacaagtgtt ttggctgcgt 240
 gacacatgag gaagatgagt ttggcaagat tggcgtgt 278

<210> 29132
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D7

 <400> 29132

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 acgaacctac ctacttccaa ggaagcacca gtcattccatc accttgtaca tgtttttatg 120
 ttgcagcact agtgggtgttt aattgtcagc tgcgatcatg tgagaacctg acctggtaca 180
 ttatgtatat aagaagaata agaacctgtt aacttatatg gtatagtatg taagttcatg 240
 gcagaatgtt cttgatggtt ggattcgtgc gcagttgaac agttgctggt gttgtaaatgt 300
 gat 303

<210> 29133
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D8

 <400> 29133

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tgctttctcc tcatgccgat tgttgacaaa ctaccagcac ttctaagaca agaccttgag 120
 tcagctttcg aagaggaact tgatagcatc tttgatgtca ctcagctgcg ccagtcactt 180
 gggcagaaga agcgcttggt ttgatctaata tttttatattt gttttttttt tatttttttaa 240
 tattttatatt tttttgtttt ttatatattat ttttttttat atttttttta ttttttatatt 300
 tataattttt ttatgtttta tttatttttt ttattatttt ttttattttt tatatatattt 360
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<210> 29134

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D9

<400> 29134

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 caaatggatc acccaagggt ggtgttactg gctattgcat gggagggtgct ttatcaattg 120
 caagtggagt attagtccca gaggttgatg ctgttgtagc tatctatggg tcaccttttt 180
 ttgag 185

<210> 29135

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E1

<400> 29135

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 ctgttttagat gttacaacct agtgaacac aacttatttg atgctgttgg ctgccttgga 120
 ctataagcag gcgttttcta cactggagac atgtgatgat aattacaatg aatctccttc 180
 agcagaggac tggaagaaag ttgaggctac ctgtaattac ctgaaactgc tatatgactc 240
 tgcacatagt gtcatggctt catcaaatec tactgcaaac atctgtttcc atgaagcttg 300
 gaaaattcag cttgagctag ccaatggcac agaacatgaa aattccatct 350

<210> 29136

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E12

 <400> 29136

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 aagctgatat agttggtctc tgggcactga atttccttat taagaaggga ttgcttccta 120
 agagcctgtc acaatctatg tatgtctctt tcctggctgg ctgcttcagg tcaatccgct 180
 ttggactgga agaagctcac ggaaaaggac aagctctgca gtttaactgg ttgtatgaga 240
 aaggggcttt tgtgttgac tctgacggaa aattctcagt tgattttaca atgggttgagg 300
 atgctgtaga aagcctgagc agggagatac tgacaatata agcaaagggc gataagcctt 360
 ctgcccaatc tcttctccag tcccgtgcaa cattgacaca tccattaaga atggcattgt 420
 aga 423

<210> 29137
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E2

 <400> 29137

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 aaaggagaag agagggtcgg aataatggcg gccgaggagg gtgccgtgat cgcgtgccac 120
 accaaggacg agttcgacgc ccgcatggcc tatgccaaagg agcagggcaa gctggtggtc 180
 atcgacttca tggccccctg gtgcagtggg tgccagatga tggccccctg gta 233

<210> 29138
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E3

 <400> 29138

 cccagaggta cgcggcgccc acgccacgtc cttggaatta ttcacgcccg cgacagacgt 60

gtacagcttc ggggtgctcc tgctggagct cctgacgggc cggacaccgt tccaggacct 120
catggagctg catggcgacg acatccccag ctgggttcgc gcggtgctg aggaggagag 180
ggagacggag tctgtgtccg ccggtggagg tggagccgag gagaagctca cggcgctgat 240
caacatcgcc gcgacgtgcg tggctgcgga cccggccagg cgcctacca cggcggagct 300
gcttccgatg gtgagggagg ccagggccta ggccatgtca tcgt 344

<210> 29139
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E4

<400> 29139

cggacgcgtg cgcggacgcg tggggctgaa ttgtcgatat gcaagacttt gtgctaactt 60
aggtatatga tggtaatttg atggttaata gatgaggtcg tacatgtt 108

<210> 29140
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E6

<400> 29140

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catttccttg gataaagtga cgttgctgca gccttcgca acatctgac tctatttcaa 120
gaaaaggaaa aatcagatta ttttgggtcc ctctacttct gatgccccga gttcaaaaga 180
tacatttcag gctgaaaata taaagtcagg tgagagtaaa gttctaattgt cttcatcttc 240
caacaacatt atcactgtgg caaatgacag gctgcactaa gctcttcaga caacaaatac 300
tgtcagaagt ttctcttatg tatggacact taatggacaa aattcctggt agtaaattta 360
tgttggagct 370

<210> 29141
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E7

<400> 29141

cccacgcgtc cgcgagacgc tgggtgcgcg tgctcgtcac tggcgccgca ggacaaattg 60
gatatgccct gggtcccatg attgctaggg gtgttatgct tggcgcagac cagcctgata 120
ttctgcacat gcttgacatt ccgccagcag ctgaagccct taatgggtgtt aagatggagt 180
tggttgatgc tggcgtttct tttctgaagg gatgttgatg taccactgat tgttggtt 237

<210> 29142

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-008-Q1-K1-E9

<400> 29142

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ttgcgcaagt atttggtcag tctccgacct aggagccttg agcctcgtgt agcagtgggg 120
tttgcaattgg acattgcccc agctatggaa tgcttacatg cacatgggat cattcatcgt 180
gatcttaagc ctgagaatct gttgctgact gcagaccaga gaacagtaaa acttggttgat 240
cttggttttg ctagggaaga gacactaacg gagatgatga ctgctgagac aggaacatac 300
cgttggatgg ctccagagtt gtacagcaca gtaacactga ggcatggaga aaagaagcat 360
tacaaccaca aagtagatgt ctacagcttt gcaattgtgt tgtgggaact cctncacaat 420
aaactgccct tcgag 435

<210> 29143

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F1

<400> 29143

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ttgcatctat ctgcatgcat attataaaat aatgtcatat tgatgcaacg ctccatgcaa 120
gtcttttcaa ggcgtacgta ctatatcaaa tcattgtaat ttccttacat gtatatgtat 180

gtgcttgtga aagatacgta cctatatata tatgtgct

218

<210> 29144

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F10

<400> 29144

ctcttgaaga ttatattcac aggataggtc gaactggccg tgctggtgct agcggaactg 60
catttacttt tttcacacac gcaaatgcaa agttctcaag gaatctagtg aagattctgc 120
gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggtct tcgaactcaa 180
cgggaggagg caattttcgg tcgagaggca gaggtgggtt tggtaaccgg ggccatatgt 240
ctggatcaaa tacctttcct ttaggaggaa gaaggccata ttgatgtgtg caaaagaact 300
gtgggagtat gggactatct gtatactact cggcattaag tgcattcttt gggaaatttc 360
tgagaaatct cccctactac caggattgat aacaccatcg attttcgcta cagtacctgg 420
agcttcttat atgaaag 437

<210> 29145

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F11

<400> 29145

ctcttgaaga ttatattcac aggataggtc gaactggccg tgctggtgct agcggaactg 60
catttacttt tttcacacac gcaaatgcaa agttctcaag gaatctagtg aagattctgc 120
gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggtct tcgaactcaa 180
cgggaggagg caattttcgg tcgagaggca gaggtgggtt tggtaaccgg ggccatatgt 240
ctggatcaaa taccttttct ttaggaggaa gatggccata ttgatgtgtg caaaagaact 300
gtgggagtat gggactatct ttatactact cggcattaag tgcattcttt tgggaagttt 360
ctgagatatt tcccctacta ctaggattga taac 394

<210> 29146
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D3

 <400> 29146

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 ttgggggtggc gccaacacag atgcaggcag gcttggggaa ccagcagttg gggttcgacat 120
 ccatgatggg catgcctcca cagatgtatg gcggcggatc gcaggcagcc atgatgtacc 180
 cgcaacaaat gccagtggcg gcgcagcagc cgatgtatgg tgggtggtgg cgtctggcag 240
 ggtacatgca gcacctctgt gtggccgctg cacactacta cagcaacctg tggactgctg 300
 gaatgtatgg gtaccccggc gcgaacgggg ctgtccagaa catgta 346

<210> 29147
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-F12

 <400> 29147

 cgttccccgc cctcgccgag agatctgcgc cgtcgtcggc accaatccgt acacccgtca 60
 gtccgtccgt cgtcggcgcc ggcgaacgag tagagatgga ggagacggcg gcagcggcac 120
 cggctgagaa ggcgtcgtcg tacaggctact ggggtgcggga agccaccggc gacgccgcgc 180
 cgctccccgt cccgcgcaag ctcgaccccc cgcgaatgg gaacgggaac ccgccgcccc 240
 tcgggtccgt ctggaatcag gctggaactt gggaggaaaa gaacctcaac tcatgggcta 300
 atagtaggat aaaggatttg ctgggctctc taggttcatt gaagttccct acagggaatg 360
 catccgttga tgaagtgtcc aagtgtcat gcgatgcctt tcaggtcact gtccgcaaca 420
 tgaagagagt agga 434

<210> 29148
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-F2

<400> 29148

agaccatata ctgcatctct atgattacta actactgtgc tccatcgaca ctcatggctg 60
tggcgttcga gcgcatgaat gagatcagct acgttatgct gatgccagtc gccttgctat 120
tcctcaaaag gcgtacgggc tatcatgact gactggcact tacttacgtc tatgtgtatg 180

<210> 29149

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B7

<400> 29149

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cgggcgggcg gccgcccgtg acgctgcaca tggacggcgg cgtggacctg acgctgccga 120
tggagaacac gctgatccac agcagcgcca cgccgctggc gtgcctggcc atggccgagg 180
cgccgcagaa cgtgaacgcc gacgtgaacg tgggtggccaa ccttcagcag cagaacgtgc 240
gggtcgtcgt cgacgtcgcc ggctcgcgcg tcggtttcgc gagggagccc tgcaactgag 300
cccctgaatt cgtccgtgcc ctatgcac 328

<210> 29150

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B8

<400> 29150

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gtacaaaaat ctgttatttg cctgatagtt tatctggagc agtttcattt tacatatgac 120
tgtaatttgt gagaatgtac atcttacgat ttttgttgac cagtattcat aggtTTTTtag 180
ttagcaatgt gttgttggcc cgttgctagt ccttgtaata caagcccacc tgTTTTTTTT 240
tggcgatggc aagacttaac ctggaaacat tttgtagtac attttatttt gtatcacctg 300
ctctatacac gagttttctt ggaacatcgg aaataataat gccctccagt atcttgcgac 360
caaaaaaaaa ttaaagg 377

<210> 29151
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-B9

 <400> 29151

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 gaagccaaaa gaattgagga acaaaatgaa aggaaacgca tgatagaatt gcgaagactt 120
 gagaaagagg aggagaaaag agctagagaa aaaatccgcc agaaattaga agaagataag 180
 gctgaaagga gaaggaaact aggattgcca ccagaagacc cagcagctgc caaaccaagt 240
 gcaccacctc ctgttgaaga gaagaagagt gcattacctg tcaggccagc cacaaaggca 300
 gagaggatga gggactgtct aagaaatctc atgcaacaga ataaggatga tgatgccaaa 360
 gtgaagaggg catttcaaac actgcttact tacattggaa acgttgctaa aaa 413

<210> 29152
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-C1

 <400> 29152

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 tcttctacaa gtggttctga aaagaataag tactggagat gaaaatgagt ctgctcttct 120
 gttcaagctt ctgggcacaa tagttgaggg tggacaggaa aaagttctgt ctcatattcc 180
 taaaattgta tccaacattg ccagtactgt aatggagctc ctgtccctg tcccagatcc 240
 ttggcctcag gtagtagtgc atctttcttc tgtgtggtca atattttggt actttatcat 300
 gatgaccggc tggaggaaca ccgggcgtgt atgagtgatc aagaacaggg a 351

<210> 29153
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-C10

<400> 29153

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taacgtgaga agagataaat ttggtgtttt gcaactttct caggatatgt actcggtgag 120
gatttagtta attattatgg ctggttagcgt agcctgacta tgcttgtgta aacctgaact 180
ccgtgtgagc gtagtgccag ctaatatggg gctgcttgct ttttgctgag ggtgtgactt 240
tgcatttgat 250

<210> 29154

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C12

<400> 29154

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gcaaagacca agaaatatac tgcattaaat tgcctgggaa cccaagctt ggtgaaggca 120
aacctgagaa ccaaaccat gccataatct tactcagg agatgcagtt cagacgatcg 180
atatgaatca ggataactac ttggaggaag caatgaaaat gagaaattta cttgaagaat 240
ttcataatgc tcatggaaaa catggcatac ggaagcccac aatcctaggt gtgagggagc 300
atgtattcac ggtgagtgac tcttcgctgg cgtcatttat gtccaaacag gagactagtt 360
ttgttacttt ggggcaacgt gttcttgctt acctcaaatt cgaatgcact atggacattc 420
tgatgttttt gatcggtat 438

<210> 29155

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C2

<400> 29155

ccaataatta agtgcactcc tatggctcgg actctatgaa aaaggacctg actactcatt 60
gggtcatata taatttatat aaagaaaacc taaaacatta actaaaacat atataaatta 120
actaaaaacc tcaaatacat ataataaaaa atattacgac cacaacatat atagtttcag 180

attgttacta agtttcaatc atagttataa c

211

<210> 29156

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C4

<400> 29156

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tgtaagcttc atcttcagcc atgggtaagg agaagtcca catcaacatt gtggtcattg 120
gccacgtcga ctctggcaag tctaccacca ccggccacct gatctacaag cttggaggca 180
ttgacaagcg tgtaatagag aggtttgaga aggatgctgc ttttatgaac tagcttgcc 240
ttaagtttgc ttgttttgct ttcttagttt attgttgttt gttatatgtt tatttttctt 300
ttgttttttg ttcttggtgt tttttatttt tctgtttcat tttctttttt tttttttttt 360
cttttt 366

<210> 29157

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C5

<400> 29157

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atgcacaggc attcctgtga agaagttttc actgtcctca aagggaaggg tacgctcttg 120
atgggatcaa gtcactaaa gtaccaggg cagccacagg aaattccttt ctttcagaat 180
accacatttt caatccctgt aaatgatcca caccagggtt ggaattctga cgagcacgaa 240
gatttgcaag ttcttgatgat catatcgaga ccgctgcta agaatatattt atatgatgat 300
tggagcatgc ctcatcacgc cgcggtactg aaat 334

<210> 29158

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C6

<400> 29158

cgacaagcca atcgaagccg agatacggcc atggactcca ccggcaccgg agcaggggggt 60
aaggggaaga agggagcggc cggtcgcaag gtcggctggc caaggaagaa gtcggtgtct 120
aggtccttga atgccgtgct ccagt 145

<210> 29159

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C7

<400> 29159

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ccaaggagat cgttgcctcc gtcctccctcg tcgtcttcag caaaacttcc tgccctttct 120
ggctcccggt gaaaccattg gttcaagaac ctggaaccag gctacaaggc cattgatttg 180
aataaggaag gtgttgg 197

<210> 29160

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C8

<400> 29160

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gcagccttag cttggaatgt gttgcatggg ttgttatatt tatgatgagg aataaattta 120
attaactttg cataatttcc aatgtatttg agtgagccga gataaacgta tgagacttgt 180
ggatacaaat ggctaatt 197

<210> 29161

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C9

<400> 29161

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tcccaccacc aacccccaga tcgcagcgat ctccgccgcc gccctctcag ggattccgcg 120
cgacaaagtc aggcgtagag gctccaggag gaggagggag gcgcagcagg gcgggtgggg 180
gagatgttcc tctgggactg gttctacggg gtgctggcct cctcggcct gtggcagaag 240
gaggccaaga tcctcttcct tggcctcgac aacgccggca agaccacgct gctccacatg 300
ctcaaggacg agcggttggt gcagcaccag ccgacgcagc acccgacgtc ggaggagctc 360
agcatcggca agatcaagtt caaggccttc gacctcggcg gccaccagat cgcgcgccgc 420
gtgtggaagg a 431

<210> 29162

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D1

<400> 29162

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cggcctacac ctcgacggg cggtacgccg tgtgcgcgag cgaggactcg cacgtctacc 120
tgtggcggac caccgggtg ccgtctgccg cgcccatcgg catcggcattg aagcccaagg 180
cgtggtgcac catccgctcc tacgagaact tctactgcaa ggacgtgtcc gccgcgggtcc 240
cctggacgca gtcgccgtcc ccgccgggag ccagcgacgg cagccccact ggcagcagcc 300
cggcgtcggc tgacaag 317

<210> 29163

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D10

<400> 29163

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gcaatacggg ttgctgaatt gcatgatact tccctaagaa tggcagctaa aggtgtgatt 120

aagaaagttg tagactggga agaatcacgc tcgttcttct ataaaaggct acggaggagg 180
atcgcagaag atgttcttgc aaaagaaata aggcagatag tcggtgataa atttacgcac 240
caattagcaa tggagctcat caaggaatgg taccttgctt ctcaggccac aacaggaagc 300
actggatggg atgacgatga tgcttttgtt gcctggaagg acagtcctga aaactacaag 360
gtgcatatcc aaaagcttat ggctcaaaaa gtgtctcatt cgctctctga t 411

<210> 29164
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B5

<400> 29164
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gatgccagac aacttatagc ttctggcggg atgccatcat ccactcagc tacagtgaca 120
gcactttcag tggctgtggg aatccaagaa ggctttcgta gtgcaacatt tgcaactgca 180
ctagtctttg catgtgtggt tatgcatgat gcttttggag ttcggttaca tgccggaaag 240
caggcagagg tgctgaatca aattgtctat gagctgccag aggaacaccc attatcagag 300
acaaagccac tgcgtgaaat ccttggacat actgttcttc aggttgtggc cggttgcac 360
cctggaatac ctatggctgt cgttatgctt ttgtcttttg ggaggtctta gtcaagtgtt 420
g 421

<210> 29165
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D11

<400> 29165
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gccacgatat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaga aacgcatata aaaaataata aaaaataatg tagaggggca 180
tataagtaca aaacattacg aaagttaaaa aaaaaatgaa tagcgaaaaa ataatggcaa 240

cacaaatcaa tatagaagag catcatataa aacctttcaa aatggcaaaa catagaaaa 299

<210> 29166

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D12

<400> 29166

tgattttggtt aagaataaac tatttttttta cttaaaaata acaacaaaaa aaaaagagat 60

tgtgattata tacaataaaa aaaataatta catattataa ataaaatatt aaatttgaat 120

ttatttttta atttaattac ttaaatttaa tctattattt atat 164

<210> 29167

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D2

<400> 29167

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tgctgtggga ttagtctag caatgcactt tgtgctcgag cgaatactta taaattatca 120

atgatgaaaa ccaggctgtc gctttatagg atccagcatt actatacgcc atgattcgcc 180

gggcatgc 188

<210> 29168

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H6

<400> 29168

cccacgcgtc cgccttcgtt cgcgccgccg tttccgccgc cgctacgctc cgcacctcgc 60

tggatttcgt gtcgccaaga tgacgaagcg cactaagaag gcaggaattg ttggcaaata 120

tggaaccagg tatggtgcta gcttgcgtaa gcaaatcaag aagatggagg tatctcatca 180

ttccaagtac ttttgctagt tctgtgggaa gtttgctgtg aagaggaaag cagttggaat 240

ttgggggtgc aaggactgtg ggaaggtgaa ggctgggtgt gcttacacca tgtacactgc 300
tagtgcggtc accgtctgga gcacgatccg ttttctgatg gagcattctg aatcatgatt 360
ttatcttttt atatt 375

<210> 29169
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H7

<400> 29169

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aggtacctct gtccaagatg attctcgatc tggccacgaa cag 103

<210> 29170
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H8

<400> 29170

cccacgcgtc cgcccacgcg tccggtgaaa tccagcatag tggcacctga gtgttccaag 60
taccatgacg tgcttctgt gatctttgct ctgactggat aactggaaa tctattccat 120
gacttcaccg acgtgcttgt ccccttttcc acgactgcaa gcgagttcaa tgggtgaagtt 180
cagttcctaa tcacagacat ggctatttgg tggacaagga agtatgctgt ggtgtttgag 240
aagctaacca agtaccctt gattgatttc aaaaagaca acgaagtga ttgcttcaag 300
catgccattg tcggccttca tgcttacatg gagttcacaa tcgaccggt aaaggctcca 360
cacaattact caatggtgga cttcaaccgg ttcatgcgca tgacct 406

<210> 29171
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H9

<400> 29171

gtccagcgtc tgctcaacga gtttatggat ctccatcag agtatgaagc tgctaagagc 60
aaagttgacc caatggatat cacaccggcg ctaccacaac aagcaccaga agccaatgcc 120
aacgtgggtca cctcgtagct gcaccagttc cgttgatagt tccgttgctg gcgacttact 180
gacctctcgg taagtatgat aggatagcaa tcttggttaag tccttatatg aaccaatcaa 240
ttagttgtgc ttgtaactgg tagattgttt agcgaggag gcgacctcag gcaaacattg 300
atattgaacc cgtttagctgt aacgctgtgt aacagtagaa gaaagaagct gaagtcgcca 360
ggtaatttat tgtaaactg tatgatgccg ggtaaactca tgcccttctt gttcaagcta 420

<210> 29172
<211> 273
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-008-Q1-K1-A1
<400> 29172

cccacgcgtc cggcaagaat atactctntg tcactctcaa accagatgtg ttcaagagtc 60
cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agtcccagc 120
tgcagaccca ggcagcagag cagttcaagg ctctgactt gagccagatg atctcgaatc 180
cagagacgtc tggcccggga caggaggaca atgatgagga ggacgacgaa acttggtgtg 240
aggccaagga cattgagttg gtgatgaccc agg 273

<210> 29173
<211> 136
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-008-Q1-K1-A10
<400> 29173

cacgccaagc gcgtcaccat catgtttaag gtcatgcagc tcgcgcgcct tataggatgc 60
gggctcgcct aagcagtacg gttgatgcgc atgcttgcta ctcaatttgg tgcttaattt 120
atcatattat ggatga 136

<210> 29174

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A11

 <400> 29174

 gcccacgcgt cggagaagag ctgcgccccg tcatgctcgc tcgcgtggca ctccggggga 60
 cgttcgacgt gtctctagga ccggcgggtcc attctcacga tgaagcatca gtcggaattg 120
 gctcacggcg ctaacgcggg ctggacatcg cgggtgcggct gtcgagccca tcaaggagga 180
 gttccaatcc tctgtacgcc gattttctacc agctcgcggg agttgtggcc gtggagggtca 240
 ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcaa ccttcacctg 300
 agggccgact tcctgacgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 360
 agatgggctt gagcgatcag gacattgttg ccctatgtgg tggccacacc 410

<210> 29175
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A12

 <400> 29175

 gtcacgcgta cagcgaggcg aagtagatga gcgagatcac gagagtagca gtgaaacca 60
 aacattagca agtacacaga gaccgaatgc gtagagaaag tacagtttat tacaacagct 120
 caagggaag gacgcgaacg ccaagatgtg gaacatactg gcctacacat ttaccacgta 180
 tcgaatcaaa aagataatgc tagcacatga agattttgga aagattgcac tagaactcgc 240
 tgtatgagat tccagatctc atgaatcgtg ttgacaagat catattgacc ttacttatga 300
 agaacctc 308

<210> 29176
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-A2

 <400> 29176

cttatatatttg ccgttccgtc acggctttgc tcgccaaact gactgattgt ctgattgtga 60
 ttgcggcagc accgccgacc acgagcccg cgaagggctc ctccgcctgc cgttccaggg 120
 tgcaactgccg ccattgctca tctccccgtg gtgcggaggt ccacccgggc gccaatgggt 180
 ctctcttttc gttggcagac tgagtggcat ccaatcctga atcaatgagg ggctgggggtt 240
 tgctcgtgtt atcgcttcat gttctttcat gcctggtagt ggcgttgctt ctgggtcaaac 300
 aagctcttat gtgctcacag aggttccatc tacagattta cctcttgaaa gtg 353

<210> 29177
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-A3

<400> 29177
 cggacgacca ctccctccac aacgccttca gcacctacgg cgaggtcctc gagtccaaga 60
 ttatcctoga tcgggagacg cagaggtccc gcggttcgg cttegtcacc ttctccacgg 120
 aggagggcat gcggaacgcc atcgagggca tgaacggcaa ggagctggac ggccgcaaca 180
 tcaccgtcaa cgaggccag tcccgcggcg gccgtggagg ctgcagctgc ggctacgggtg 240
 gtggccgtgg aagcggccgc tacggctgtt gcgggcgccg tgatggctgc tgcggcta 298

<210> 29178
 <211> 130
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-A4

<400> 29178
 cccacgcgtc cgcccacgcg tccgggattt tccgttttct attaggaatg gctatatattg 60
 tgaacataaa aattagtaat ctggagaggg atttacaata ttggaccatt ttaacctaga 120
 cgagccaaac 130

<210> 29179
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A5

<400> 29179

atcacgcgta cggagaagag ttgttcaagg gttatgctac gagttgcgtg gcgggtccgca 60
ggggcattct acgagtggtc aaggaccggt tgtacattgt atacgagaaa gcattagtc 120
taattagctc actgcactaa ctcatagctt 150

<210> 29180

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A7

<400> 29180

cgctcggct tgtccccacc aaccgcgagc tcgctccac caaaccaca cccgaacaat 60
ggcgctggcg tccaaggagg aggtgatcgg gaagctcaac atccgcgtgg tgcggggcaa 120
caacctggcc atcgccgacc cgctcaccca caccagcgac ccctacgtcg tcctccagta 180
cggcgctcag aagggtgaaga ctagtgtcca gaagaagaac cccaatccag tgtggaacga 240
agtactgcag ctctcagtaa ccaatcctac taagccagtg caccttggag tttttgatga 300
agacaagttc acagcagact actgcatggg tgttgc 336

<210> 29181

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A9

<400> 29181

cccacgcgtc cggagaagag ctgcgccccg ctcatgctcc gcctcgcgtg gcactccgcg 60
gggacgttcg acgtgtcgtc gaggaccggc ggtccattcg gcacgatgaa gcatcagtcg 120
gaattggctc acggcgctaa cgcggggctg gacatcgagg tgcggctgct cgagcccatc 180
aaggaggagt tccaatcct ctcttacgcc gatctctacc agctcgcggg agttgtggcc 240
gtggagggtca ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcaa 300
ccccacctg agggccgact tcctgacgcc actaagggtt ctgaccacct gaggcaagtt 360

tttggcaagc agatgggctt gagcgatcat gacattgttg c 401

<210> 29182
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B10

<400> 29182

ggcaaggcgt acgctgccac accaacaat ctcaagatta ttgacctcta cgtggggttt 60
gcgggttgcca ctgcccttat tcagggttgc tacatgggat tggttgggtc gtttcccttc 120
aactccttcc tctcaggagt cctttcatgc ataggaactg cagttcttgc tgtttgcctc 180
cgcattcaag tgaacaaaga caacaaagaa ttcaaggacc ttccccaga aagggccttt 240
gctgatttcg tcctatgcaa tctggtgctc cacctgggtga tcatgaattt cctcggataa 300
gcaactgctg caccatgttg gttaaagggt ttgtagcccc aagttgtggt cgctgattgt 360
cgcctttaaa tgtttggaac tgctgtgatc gtgatgtcga atatccatat gatctgttga 420
agtaagc 427

<210> 29183
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H5

<400> 29183

ctttacattg aaatgctgtc gttgtacat gttttttctg agttctacac ctgcttgtct 60
tgcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa taaaaaatta aaaaaaata a 161

<210> 29184
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B11

<400> 29184

caaaaacatt tttggaatgt tatgttcaag ggaacattga accaagtga gcagaatcta 60
tcgtagaaga aatcgaaaac actatattta ctacgccccaa ttctttgttc aaatccatgt 120
ctccatcaga atatcttatt aaaaggggtca tcatgcttga aaatgacttg aaatgctact 180
accaaactga gggattaaac cagaagaatg agaattcatc agttatccaa tatattcagg 240
tgcatcaaga tgacgccatt ttgaatatca aacttgagct gttctctcta atagcaaata 300
agccagcctt caaccagcta cgaactgttg aacaacttgg gtatataaca agtctttctc 360
tgagatccga ctatggagtc ctggcactcc aggttggttat ccagtccaca gtaaaggatc 420
cttca 425

<210> 29185
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-008-Q1-K1-B12
<400> 29185

cccacgcgtc cggctactct gtgaatctgg aggagataac ttggcagcta acttcagcag 60
agaattagca gactacataa tctacattat cgatgtctct ggtggggaca agataccaag 120
aaaaggtggc cctgggataa ccagggccga tctgttggtg ataaacaaga cagacctagc 180
acctgctggt ggagctgata tgtctgtaat ggagcgagac gcacttcgca tgcgcgaagg 240
agggcccttt gtgtttgcac aggtgaaaca tggagtgggc gtggagggga tcgtgaacca 300
tattctgcag gcgtgggaga tcgcgactgg taataagcgg cgataagatc tcacgacttg 360
tggccatatg ttggatgcag atttgaatca gtcggcactt ccacatgcat gtgtcatctg 420
ttcgttct 428

<210> 29186
<211> 144
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-008-Q1-K1-B2
<400> 29186

cggacgcgtg ggcgagcgga tgctgttcga cattcagaag ttctacaacg tgttgattga 60

ggagctgcct gccaacgtcg ctgaccttct gtgatcattt tgaagaaaaa cagaactaaa 120
 agaaaggtgg tgggggtgat ctgg 144

<210> 29187
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B3
 <400> 29187

ctctttctct cttgtgttct tgccttctgc ctactacgag tgatggccag cctcactgac 60
 ctcgtaacc tcgacctgag tgactgcaca gacaggatca tcgccgagta catctgggtt 120
 ggaggatccg gcatagacct caggagcaaa gcaaggacgg tgaaaggccc catcaccgat 180
 ccgagccagc tgccaaaatg gaactacgac ggctccagca ccgggcaggc tcccggagag 240
 gacagcgaag tcctcctcta ccctcaagcc attttcaagg acccgttcag gaagggtaac 300
 aacatccttg tgatgtgtga ctgctacacg ccacaaggcg ag 342

<210> 29188
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B4
 <400> 29188

gaagtatcag cgtacaggaa tgtgagacat tcaccatcat ggagctttcg gtgggacaat 60
 cgcacacata tagaagacat aatggaaatc cctactctgt tctccaacca tagtagtgga 120
 agcattcggc ctgatacaaa gagtggttcc attgcccacaa ctgaagggtt ttctaattgga 180
 aatagccttg gaactagccc ttccaatgtg tctcacggaa caaagtggca caaatctgac 240
 aaaaaaatgg aagcatctaa gggtacaaag gctgatcctt gaggcaaagc tttccaggaa 300
 atcgctggac atgtcaagtg ttgcttcaga tttgaagaca ttatgggtctg ttcccttaaa 360
 accaccctta gtatccagag cagattcatc attcctcagg ggc 403

<210> 29189
 <211> 329
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F4

<400> 29189

cccacgcgac cgccaccta ccagcgggca gtaacacgcc acgatcacga ccccccgcc 60

ggggcgcgcg acccgacag aacgcgcca ccagcgccg cggccaagga taaccagatc 120

accacgcaca acaagcagca gagggcaagc acggctcgcg cagaccacgg agaggagagc 180

gccctaccga cgcacagga cacgcagccg gctaacgccg acgaaggaag acagagcaca 240

ggtaaaacaa ccgagaagga gagcgaggcc gggaaggaca cccgaccgag gggaccaggc 300

aaaaaaacca caacacacgc cagagcaag 329

<210> 29190

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F5

<400> 29190

ggaagggttta tctcctatta attcctatac aggggataca aaaatgataa agctatactc 60

aggagcaggc gcaagaccaa gaactgcacc gcttcctatt aggagtggcc tgatatatag 120

ggaaccttta ccagtaggag gcacccatct tttatttgcc aaaacagttt gtttaacagc 180

atcaacgaat tgctcaacag ttggagcagg catacacatc ctctctgcac cgcttagcat 240

ccttatagca ttctcctctg gacgaaatag aaggatggac ccatcagttt tcctatatgc 300

ttttaggcct tcaaacaatc cctgcccata atttaagact ccagcttaag gactcagtgc 360

tatatgacca aatggtatga ctttaccttt ggaaaagatt ccatcagttc cacaatttgc 420

<210> 29191

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F6

<400> 29191

gccacgcgta cggtgtatga atagattgca gtctatacag agatcataaa gctataactca 60

ggtgcaagcg catgaccaag aactgcactg cttactatta tgagtggcct gatataataag 120
 gaacctttac cagtttgagg cacccaactt ttatttgcca aaacagtttg tttaacagca 180
 tcaactaatt gctcaacagt tgtagcaggc atacacatct atctctgcac cgtttttagta 240
 tacttatagc attcttttta tgacttaata taaggatgga cccatcattt tttctatatg 300
 ctttttaggcc tt 312

<210> 29192

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F8

<400> 29192

aaaaaaaaaa aataataata,aaaatataat atataaaaaa aaaaaaaaaa aaaataaatgg 60
 aagggttgcc attttaaagg atccaatgct acttacacat gcatgcttct tcatagctct 120
 attatagtgt taccaaaatt taatttactg gcctttgttt aacaacttct tgactggtaa 180
 aaccttgtct ttac 194

<210> 29193

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G1

<400> 29193

cccacgcgtc cggcacagtc ctttccaaac attcagagcc attatccatc tgaagaacat 60
 tggcggatgg catctggtaa cttcagtcca gatgaccagc ataattggat agcaagtggc 120
 agatcattac cttgctcaga agggccattt gtgcatgatg gatattcaag atcaaacatt 180
 gacagatctt caatgaatcc tatgaatcat caacatactg ttctgaatca tttgccatct 240
 ggagcaccac taccaggcca tatttctcag atgctaccag ccagggtctga tatgcacact 300
 cttaattgct ggaggccctc ttgatagagt tgtaaactga acttcttggt tgtgaatttg 360
 acttgtaaag ctcatgtcat tggatgcttt ttgaatt 397

<210> 29194

<211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G10

 <400> 29194

 aaaaatcaaa aacaaacttt taaaataaat ttttaaaatt caagacaaaa taac 54

 <210> 29195
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G11

 <400> 29195

 cccacgcgtc cgaaaaatta aaaacaaaaa ttttaaaaaa caaacaaatc aaaaaacata 60

 agggaaaaat taaaaattaa aaagggc 87

 <210> 29196
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G12

 <400> 29196

 cccacgcgtc cggcttgtca acatgaactt tatgaggaac atctatatca tcggactctc 60

 gtagggccgt ggcattctcg tccctcacta ctataacgga tacacttgtt cagctggcgg 120

 ccacggacct gcccgacaa atgctggatg gttcaacgac attatagaca ccgtgtccgc 180

 tgccggggccg actgtagcac taattgttgg ttatgtcctg gac 223

 <210> 29197
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-G2

 <400> 29197

 cccacgcgtc cgcccacg cccgcattcg ttatctactc cagtctccca ctcacctatc 60

tggcagcgcc cgagcaatcg ccacgcccac gcccgaatgg aagacagcgc caccaatggc 120
 catgggggttg tgacggctgt cccggcctcg tggaacttcg agccaaacga gaccctcctg 180
 ggtctttcgg cgctctcggg tcgtggcgtg ctgaccagag tcatggccgg gatgttgccc 240
 gacggtgggc tgt 253

<210> 29198
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-G3
 <400> 29198

cccacgcgtc cgcccacgcg tccggcagat tactcatcta gccgaaaccc aataactgta 60
 cctaggggaat gtattgggat gctggagaga agcattgtat actttgggtc atctatacac 120
 tcgatcacia aagggtcaac aaggcaagat atacaggaat gcttgaagga aggatatatc 180
 tgtgtacggt cgttccaacg gaagaccaga ataccactac gcctatgttg cacac 235

<210> 29199
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-G5
 <400> 29199

agctgagaag gattattggg acacaatccg cagtattcaa ggaaagtaca aggatagtag 60
 aagctacaag ggaagggctt caaataacca gagaggagga aagcgtttca acgcgaagcg 120
 agatagaaac ccagactcgg agaagaattc taacaaggct cggaagggtg aagctatcgc 180
 atgagggttaa tttaggtacc ttagctcgac taaagaagta acatgttatg ccagcatgat 240
 cgacttcagt actctccaag tgtctagaat cgacttgtct tttagctatc gttttcattt 300
 tggtcgtttt gccactttat tcgatgttag tcccttagct ataatccttt ttgaatgtct 360
 ttactgagat gcta 374

<210> 29200
 <211> 423
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G6

<400> 29200

cttctggtcg caaagatcca gataaacaag agaaagcgac ggaggttact aagggcctga 60
aggatacaga gggattcact gtcgtttcaa aacgccgaag gcgtccccag ccgttcatga 120
accccataaa tggcctatat tctcagccgt ctatttgcac ctctgtcagt taaggtcatt 180
gcgttatcga agacctgcaa tattttggga gatggacctt tgcctttgcc tttgcttaga 240
ggattggtat ttggtagcag agattttctc tatccaagtg agttgtgagc agcgagcatt 300
tagtcaaact gtacaaaagt tttccgggat accctttttg taataaaaga aactgatgta 360
ttccgcagta gctgtagcgc tggatataat gttcccttgt atgttatata tgacagaatc 420
ata 423

<210> 29201

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G7

<400> 29201

gcagcagctc gtgcatatat ctagctaagc caattgcgca ccaccgcgcg cgccacccca 60
agatccccgt gccttttcag agcatctctc cgtcgccgtg acaatgaagc agcagcgagg 120
cgaccttgcg acctccgttc ctctgcgctc cggttgagtt gctgatttgg gataatcatg 180
ttctctctga gtgaatgaac atgtctggga atgatgataa gccacatgct gctgcaaaca 240
gaataaaggc agccacgtta tcagtgacta agggattgag cagggctcaa gctgaatggg 300
ctgcgactgc tgctaccgcg aatgtgaatg cctatgggca gaatgaagag ggacgaagcc 360
gtttgcaaga gaggaagaaa gccaagagtc agatgtatct gatga 405

<210> 29202

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G8

<400> 29202

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ggcccactgg acagggacag agtgtggcgt tgctcttttc tgtttccgta cgtaactact 120
tggatcgcg c atgcccgtgt atgcgtgttc cgttgtgggtg ttgctgtact cgatctgctg 180
cctgtgtgta tctaccgagc tcttcggaca gatacgcgtg cgtatgaata attgatgtaa 240
taacgacgtg tgcacccgct atatatatgc atatctaaaa taaaaagata tcatatctta 300
tatt 304

<210> 29203

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G9

<400> 29203

cggacgcgtg ggcggacgcg tgggccgcca ccggcaccta cgcaacacca ggcgctccag 60
cagaacagca ctccgagctc gctgcccga cggcccacca tgatcatccc caagaagaac 120
cgcaatgaga tctgcaagta cctcttcaag gagggcgtgc tgtatgccaa gaaggactac 180
aacctggcga agcaccacaca gattgatgtg cccaaccttc aggtgatcaa gctcatgcag 240
agcttcaagt ccaaggagta tgtcagagag accttctcct ggcagtacta ctactgggac 300
cttaccaacg atggcattga gccctactc aactacc 337

<210> 29204

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F2

<400> 29204

ctttgaatct ttggtatcct tcaaactctc attggattag gtatccttca aatcttcagt 60
atgcttcgag tcttcggtag gcttcgaatc cttatggggg aataacttcc aagtttcaaa 120
atttaagtga agagacttat tttttccaga agaatagatt catagttaa gaacggaata 180
cccatatatg aaaataagag cttccgtgcg taaaatgcgt acacaatgtc gactgattcg 240

caggcgtggg cgaattagag tcattcggtc caatccgaag cataaacaaa gactggggta 300
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<212> DNA
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<223> Clone ID: LIB3067-007-Q1-K1-H10

<400> 29205

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tgac 184

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<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H11

<400> 29206

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caagtacctc ttcaaggagg gcggtgctgta tgccaagaag gactacaacc tggcgaagca 180
cccacagatt gatgtgcca accttcaggt gatcaagctc atgcagagct tcaagtccaa 240
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cattgagcac ctacgcaact acctgaacct tccgtctgag attgtgctg ccacgctcaa 360
gaagtctgcc aggccactgg gccgtccatt tggtctctggc ccttctgggtg aaccgccaag 420
gggccctggg cgttttgaag acaga 445

<210> 29207
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H2

<400> 29207

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gtggaaaaag aaaaatatga actcccaagc aaatgtagac ttcgtcctga taatgacatg 180
tttcggggagc aagagcaaca taagattcat tttgatatta atgagtggca ctgtggcttt 240
tgcaagaaag ctttccgagc agagaagtgc attgatcagc attttgaaaa tcgccacaag 300
aatcttgtgg ataatagtga aggaagatgc atggcagatc tatgcggcgc actacattgt 360
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<210> 29208

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H3

<400> 29208

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gaggaggagg aagatgacga cgatttggac aacgttcgcg tggcactttc cagggccaag 180
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ttggacaacg ttccgttcgc actttccagg gctaagaagg gaaacgagaa gcataaaggc 300
aacaatagca atatgaaggc tttttcgaaa gtcaagaaag aagtcagttc tgatgatgat 360
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<210> 29209

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H4

<400> 29209

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cgtgccctgg ccttccttaa tcatgtcagc gaatccaatc gaggcgatgg accagcaggg 120
 tgcgggcggg gacgcggagg tgccggcggg gctgggtctg acggcggcgg agtacgagca 180
 gctgcggctg acgggtggacg cgcaccaccg ttacgccgtg ggggagggtc aatgctcctc 240
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<210> 29210
 <211> 487
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-C4
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 ccttcctatt tagggttgat atgtagtata actgttgctg ttgcactttt gtcacttggt 180
 tcatttagtt tatggaattg tgccgttttc taatcggtaa tggtagattt tcatttcctt 240
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 tttagttttt cttttttctt ctttggtttt tatttttggt tttgttttat gttttttttt 360
 tttttatctt attatttttt ttgttttttt atttttttat tattttttat ttatcttatt 420
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 aatttttt 487

<210> 29211
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-C5
 <400> 29211

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 aaatgcttgc tcgacaatga agctgtgact gttggaggca cctgccacag ccatgctact 180
 aaggatctat atgattccat cgcagctggg aattaccctg aatggaagct ctacattcag 240

actattgatac ttgaccatga ggataagttt gactttgacc tgctcgatgt caccaagacc 300
 tggcctgagg atatcatccc gctgcatccc gttggactga tggttctgaa caagaacggt 360
 gacaacttct ttg 373

<210> 29212
 <211> 141
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-C7
 <400> 29212

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 atgaacaagg atggtaagcc ttaccttggtg aaattccatt ggaagcctta cttgtgggtt 120
 gaaatgcttg ctcgtcattg a 141

<210> 29213
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-C8
 <400> 29213

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 acatgctggc tcgtgactga acctaccact gttgatgtca cttgtcatta tggttcggtt 180
 gttgcatcat atgtttcttt tatacgatgt gaattactta ttattttgtt actttactta 240
 t 241

<210> 29214
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-D11
 <400> 29214

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tcggaacacc tgcttgcgt ttctactccc agcatgctta tgagccgtgg tcgttccttc 120
 ttctgtttct tgcttgcgt ttgttttcta attttttttt tattgtttct ttattttttt 180
 tttcttcttt ttttttatta tttttttatt tttttttttc ttttttattt ttttttatcc 240
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 ataatttt 368

<210> 29215
 <211> 119
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D2

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 acatgtttga atttatctgg tcacttgtat ggtaaaatag cagcggtgtc aattgtcat 119

<210> 29216
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D3

<400> 29216
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 gcctctgcaa gggcatgaag ggtctgggca agggcagtac caatctctac cataagg 117

<210> 29217
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D4

<400> 29217
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agagagcggc gaatttaca ctcactagt ggtgctggga catatatgtt caggatagat 180
gatgaacgtg ttatagatgc cactcgggtt ggaagtatag cccgtctgat caatcactca 240
tgcgagccta attgctattc acgtgccata actattcttg gagatgaaca catcatcatt 300
tttgcgaaac gggacataga tccattgtaa gagcttgc atgattatag gtttttatca 360
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<210> 29218

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D6

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<210> 29219

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D7

<400> 29219

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tgccgcccta tactcttcca ctctgatggt ccgaatgcag gagatcaaga accattccct 120

gtgggatcaa atgtccgttc tatgtctgta tggatcatga ttttgagctt gtaattttac 180

tattattact ttgtgttttt tcattttttt tgtttttatt tcttttttgt tttaaagtta 240

tattattttt tttttttcta tattttactgt attttttttc attttttttt ttattttctt 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D8

<400> 29220

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 tctgaggatg aggagcacat gaagaagggtg gaggccaaga actctctgga gaactacttt 180
 tacaacatgc gcattatgat taatgactag atgattgcgt tttatcttgt tgtctttgtc 240
 tagattgtta tttattatTT ttttactcag ttatatTTTT gctttattct tattatTTTT 300
 tctatTTTTa ttttatttat attctTTTTa tttttctttt tttgtttatt tttttttatt 360
 tttatatatt tttatTTTTt ttttttttat gtttttttta tttctttttt aattttt 417

<210> 29221
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D9

<400> 29221

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 gc 62

<210> 29222
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E11

<400> 29222

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 gagaactgct tt 72

<210> 29223
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E3

<400> 29223

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ggctggagga ggcgtgcccc ggcacogtct cctgcgccga cgtcctggcg ctcatggcgc 120
 gcgacgccgt cgtgctggcc aacggccccct cctggccccgt cgcgctgggc cgccgcgact 180
 gccgogtctc cctcgtcaac tagaccaacc agctgccttc gtccaccgtc aacttcaccc 240
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<210> 29224

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E4

<400> 29224

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 tgcctcagcc gctgagctgg tcacggcgct gtctctcccc tccactaagc tgccgttcct 180
 ccgccgcctg ctgcggctcc tcgccgcgtc gggcgtgttc accgtcgaca agcagagctc 240
 ggaggaggag cgggtaccga tcagccccgt g 271

<210> 29225

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C2

<400> 29225

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 gtggaacctg tagatcatac caaatggggc gctgccacca cccgaactcc ttatctgttg 180
 ttgagaaggc ctgtctgaac accaacagct gtacagtctc cctgacagac gagagctttg 240
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 gacgtacgga gtactaagta tctcgggtgtg catctagggt ccaagtatgc ccgtcaaaaat 360
 tctaaaattg tagtgcttct tgcacggcaa tgctattgta acctggattt acccgctaata 420
 atgtttccta aaaaaaataa attatttatt tttttt 456

<210> 29226
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E5

<400> 29226

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tgcaggaggc cgtcgaggcc tacctcgtgg ggctcttga ggacactaac ctctgcgcca 180
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tctgtttgt atgattttgt catttattgg ttttttattt ggttgttgt ttacttggtt 360
ccttttttct tgttcttttg 380

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<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E7

<400> 29227

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tcttgaacta gatacagtat caatacaatc tagctttcaa ctttaacacc atggcatgct 120
tgatac 126

<210> 29228
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E8

<400> 29228

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caggtacaac catccattct atcagataaa acataaacag taaacaaata caccttacct 180
 cctctgttag aatcagatct gcatctgaac ctatagatct atcattggct aatgggggatg 240
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<210> 29229
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-E9
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 ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctgcccagg agggccgtgc 180
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 atgtgatcgg cagcgccggg agcccggaca agtactggag cccccacccc aagaccggcg 300
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<210> 29230
 <211> 62
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-F1
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 ta 62

<210> 29231
 <211> 111
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-F10
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tcatacgtgt tcttgccggt ggcttggtga tgctgatgac tgttactcac t 111

<210> 29232
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-F11
 <400> 29232

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 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-007-Q1-K1-A11
 <400> 29233

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 gcagggactc ggccaagaag acggcgaaga agtcgcgcgt caagtgttc atcaagctcg 240
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<210> 29234
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A12

<400> 29234

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aactgttggt gaagtcceaa atgtctcttg ggaggatatt ggcggctctgc agattgtcaa 180
gagggagctg catga 195

<210> 29235

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A2

<400> 29235

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cgacaccgag aacctcgccc atgagcgagt tccaagtgat ctgaaaaaga atctcatgca 360
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acaagtgatt 430

<210> 29236

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A3

<400> 29236

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tttttctttt ctttttggat tttattagtt tttttttttt ttttttctta ttatttcttt 240
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 tttgattatt tttattgttt ttttgtctta tttatttttt atttttttta ttttcttttt 360
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<210> 29237
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A4
 <400> 29237

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 ggccccaaga tcgaggaggt ggactaagcg gtttgggtgtc agtcttgagc gtgctgcagt 240
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 taaactttat ttgtgggtggg ctggtacttt tgtgggtggtt attttttttg gacctcgtga 360
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<210> 29238
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A5
 <400> 29238

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 ggaagaaata tgtggattaa cagcagctga aggttttgca gcatcaagtt cttcccagct 240
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 aactcaagca gcagccagaa tatttcaagc ttttaggtgg gaatcattcc acagaaagaa 360

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410

<210> 29239

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A6

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acagaagaga tagccgaggt tgtcaagtca agtgtgtctt ctgacatggt caagagcaca 120

tatgagtcca tcaccaagg aaatcctatg tggaatgagc tgccagtctc aacaagcact 180

ctctatccct gggatccatc atctacatac atccatgagc ctcttactt caaggatatg 240

acaatgactc ctcttgcccc gcgaccggtg aaggatgcat attgccttct gaactttggt 300

gacagtatca caactgatca catctgcct gccggaaaca ttcaccaga cagcgcagct 360

gcaacatatc tgaaggagcg tgggtgtgaa aggaaggact tcaactcata tggtagccga 420

agaggaaatg atgagatcat tgctagggga acctttgcaa catttcgctt 470

<210> 29240

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A7

<400> 29240

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gaccagcag atgtgggact ccaagaacat gatgtgtgct gctgacctc gccacggctg 120

ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180

aatgctgaac gtgcagaaca agaactcttc ctactttgtg gagtggatcc ctaacaatgt 240

gaagtcgagt gtgtgcgaca tcccacccat cggcctgaag atgtcctcca cattcatcgg 300

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caggaggaag gccttcttgc attggtacac g 391

<210> 29241

<211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A8

 <400> 29241

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 ctactttaca tcatgtgctc tatcaatttg taagatgata accaattaaa tttattttact 180
 aatgcttacc tgtcgctata attatattaa ttatctaaaa tttttgtatt ctatgaattt 240
 gtattcaatt gttttt 256

<210> 29242
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-A9

 <400> 29242

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 ggacgagtcc gtgctctgga ccgagagccg cgacgtcggc aacggcttcc gctgcgtccg 120
 catggtcaac aacatctacc tcaacttcga cgccttccac ggcgacaagg cccacggcgg 180
 cgtccatgac ggtaccgaga tcgtgctctg gaagtgggtg gagggcgaca accagcgtg 240
 gaagatcctt ccttgggtgaa cgaacgaatg aaactactag ctgggtaccct aataataatt 300
 ctgctggctg cggcgatccc ataaataaag atgcccggtg cgattgcatt tt 352

<210> 29243
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-B11

 <400> 29243

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 tagggcgcta gctcgtgcct cgtgggtgtg gtgaataaaa agattcatgt cgatctctgc 120

ttactgttat cgtatctgta gtaccttgag tgatatgaac aatatgtatt atttacca 178

<210> 29244

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B7

<400> 29244

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ttaagatctg tgctaaccat ctggtggtgg cgacgactaa gatgcaggag cacgcatggt 180

gcgacaagtc gtgcgtgtgg ctgcgtctgg acttcgccga ctgtgagctc aaggaggaga 240

tgtttgctat cacgatttgg atctgtcgag aatagctaga agttcaagga cactgttgaa 300

gagatagctg aagagcatgg taagac 326

<210> 29245

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B8

<400> 29245

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tctgccgccg ctccggtgct gttgaatctt tccagctact agtggtcagc gctccaagaa 120

taagggtcct gggatccctg tccttcagca tccccaagtt ggagattggt ggcaccgtct 180

ttcaaccac cgtgcgccgt gtcaaccgtg tggggcctga cgatgttatc atggagaagc 240

gcttgctgat gcaggccgct atgctggcga cgactctgag aaccgtcaag attttggcgc 300

tggaagatgc agattccatc gacatcgtca gcgactactt gaagtgtttt ccatgcttgg 360

aaaagctata catctcggca tcacaaggat acagaagtgc tggaagcta 409

<210> 29246

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A10

<400> 29246

gggctcgcaa tcaagcactc cctcggccag tcccacccgg tcaagctcgc gcctttcagc 60
ccggaccagg aggacgcgtc ggtgctgtgg actgagagca aggacgtggg caaggggctt 120
cgctggatcc gcatgggtcaa caacac 146

<210> 29247

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B9

<400> 29247

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caaactcacc ggggaggagg gagtgggcga ccggcgggcg cgatgggttt catcatggag 120
ttcgcagaga acctgacctt ccgtttgatg gaggacccgg acaagcgcga ccaggttcgg 180
cgggagcatg cctacaagat gaaggagcgg tgcgagcgca ccaaggcggc gtggagcctt 240
cctctgcgct cctacagctt ctggaccttc gaccgcttca actcgcagct cttctgggac 300
ctgctgatca gtca 314

<210> 29248

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C1

<400> 29248

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gaccacgcag atgtgggact ccaagaacat gatgtgtgct gctgaccctc gccacggtcg 120
ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180
aatgctgaac gtgcagaaca agaactcttc ctactttgtg gagtggatcc ctaacaatgt 240
gaagtccagt gtgtgcgaca ttccacccat t 271

<210> 29249

<211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G12

 <400> 29249

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 ataatggcca tcttgatctt agatgggtca ggttgtcata tgtcctataa atattatcta 180
 acatagaaaa aaaaggaata caaatataat tgtcagccaa aaaatgtttc gatagcctgt 240
 taatggctctg tatttcatac gaatgtaacc tttcaacagc tttgattgat attatgtacc 300
 tctacagatg gcagcagtgga aaattctatg tgtgcaacta gaaccaagtt accgaccggt 360
 gattagcgcc tattgagctc aatatgatat tacagtttat ttgtgctcaa ccaccgatgg 420
 cgtctttatt actgtgcatt gcatattctt ggtag 456

<210> 29250
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G2

 <400> 29250

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 ctgagcagat cacagatcct tgaagggtag gctgtacaaa gtggaatgtt tggccatgag 120
 atgatggata cagtcgctaa ctgcctatgc tcagccaagc tgctgatgca gaaggctgaa 180
 gctgaactcg gcgatgggtc tcagcgacac tagaagatag gttgatggtc agttaggact 240
 aactgtactg tacggtatca ctgcaatgca agggactcat tggatgggag catgac 296

<210> 29251
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-G4

 <400> 29251

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tcaggcataa atataaatcc gttctcttgc catgggtattt agcacgctca agcatcattt 120
gaataagtct tgcgaattca acacagggtc tacgaaagtt gctttggcta aggaacgact 180
gcaatgtcga gaaacgacac taatttcttt cagcgcttcc cactaccgtc gtccaacttg 240
gggcccttgg aacccttctg gaccgtaccc tttgtctgcg tcttctggga ctt 293

<210> 29252
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G5

<400> 29252

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cgtcgaacat agccgcacta aacacatagc cattcggtat cattttctta gggatcacca 120
acaaaagga gatatcgaga tttcttacct taatactaaa gatcaattgg ccgatatctt 180
taccaagcct cttgatgaac aatcttttaa caaacttagg catgagctaa atattcttga 240
ttctaggaat ttcttttgtt aacttgcact catagctcat ttatataact ttgatcatat 300
gctatgacta atgtgttttc aagtctattt caaaccaagt cataggtata ttgaaagga 360
attggagtct tcggcgaaga caaaggcttc cactacgt 398

<210> 29253
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G7

<400> 29253

cccacgcgtc cgaaaaaaaa aaaaaataa taaaaaaaaa aaaaaaagca aaaaaaaaaa 60
agaataaata aaaataa 77

<210> 29254
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G8

<400> 29254

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tctccccagg gtccggcgat gtcggcgccc tccgacgccg cggaggcagc ctgatcgccc 120
gcatccacta ccaccgccgc cgcctccagc ggtgggcttg accttcaagc tccaccgct 180
cgtcatcggtg aacgtcttcg accaccacac ccgcgtcaag gccaggccg cctgctccgg 240
ggacagctct tccccctct cgtccgcccc gggggccggg cagccgccga ggtgttcgg 300
gtgcgtgac 310

<210> 29255

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G9

<400> 29255

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ggagtcattg tgaaccccaa gggcgagatg aaaggatctg ctatcactgg acctattggc 120
aaggagtgtg ctgacctttg gccaggatt gctagtgcag caaatgctat tgtctgatac 180
tactggttga gaatagttta ttgtgatcca ttttaacctt ttctgcactt caacatttgt 240
gggaatttac ttgattaatg gactaaagga aaagacgctt atgcgcacaa tt 292

<210> 29256

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H1

<400> 29256

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gacttgcaaa gcttttagag gatgaagaat cacatattac tacaatagtt gcaagaacat 120
tttgttacct tgcaccatag tatatgcaat ttggcagagc cacctagtga gactgatgtc 180
tacagttttg gggttatggt actcgaaata ctcagtggaa agcggcctac tgatgcatcc 240

ttcattgaga agggaactaaa cattgttgga tgggttaaatt ttctggctag tgagaaccgg 300
gagagggaaa tttgtctcct gaactgggaa agagtgcaga ctgagacctt atatgctc 358

<210> 29257
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H10

<400> 29257

acgcgattga accgtgaccg tcatttggct ggagaagtgg atgataacat gttgagcggg 60
ctggtgtgtg gtacccttag gcaagagtct aacaatcaac tctgacatat gatggagtga 120
ct 122

<210> 29258
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H11

<400> 29258

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acttcttogg gtgaagaaaa tcaccatgac atccagacag tcttgaccaa cggtagacact 120
tcttccaatg gagctgacaa ttcaggtccc accaaggata ctgagtagct gaactgcagc 180
ttgctgcata gctaaccaca aaggcccaag ttattacttt ttgcagacct attttcagtt 240
ctagcccctc ccttcccatt tcgattttgt ttgttaagtc ctcccgatct gtatttatta 300
acttgcatag tgcgggtcac cgaagactta tgctgctgca gaagttttgt ctctggcagg 360
tagctatatg caagaggggtg gtaccggttc 390

<210> 29259
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H12

<400> 29259

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catcgacgac ctgggttgca ccggagggac actctgtgct gcgatcaggc ttctagaacg 120
tgctggagcc gatgtggtcg agtgcgcgtg tgtcatcggg ctcccgaat tcaaggattt 180
gtacaagttg aatggaaaac ctgtatacgt gctgggtgag tctcgtgaat aatcggagaa 240
atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctccttgcta 300
ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcgg tgcatacta 360
agtcttggtg aggggagaga ttgtagtgtt ttaggctgag tagtgaagaa cctgtagttc 420
tgcacggaac atgat 435

<210> 29260
<211> 313
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-006-Q1-K1-H2
<400> 29260

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atgcatgtca tctggaggaa tacagccaaa acggaatgta taaaacaatt aggactttgc 120
aagaagtcta tattgatcca tcttcagttc tctttagggt taattctaag tgggttgtct 180
accagtctct cgtctcaact gacaagcatt atatgctgaa cgttattgcc attgagccat 240
catggcttac ggaagctgca ccacattttt atcagttccg aacattcaat cctgcttccc 300
actaacatta ctg 313

<210> 29261
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-006-Q1-K1-H4
<400> 29261

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ccaccctgag aaaggagatg ctctgtacgc tatggagctg gctctggccc tggaaaagct 120
ggatcaatgaa aagctgcaca acctgcatgg tgtggcaaca aggtgcaatg atcctcagct 180

gacagacttc atcgagagtg agttcctcga ggagcaagtg gaagccataa acaagatctc 240
 caagtatgtc gccagctga ggagagtggg caaggggcac ggggtgtggc acttcgatca 300
 gatgctgctt gaggaagagg ccttaaaaga agaacggaca gatgaatgaa ggaacaagt 360
 gtgtaatgtt gatcaggcgg aggaaaaatg ggtcaactga caac 404

<210> 29262
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-H5
 <400> 29262

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 atagaggacg cagagtgaga agatgcgacg aatgttagat tgataaatgt aatgtggttc 120
 tgacatctat gttcgaatat gccggagaca aggagatcta tcagatcgct ttgttctctt 180
 gagtgatgaa acatgatggc gtcgggccaa ggggtgaagct gctttcagtt atgctatgct 240
 gtcattctgc tgaatgtata tcagatttct tgaacaatac ttcttgtctc attgectact 300
 atcacggaat aagttatatc aggggaaatt gaccgggtct tttttttccc gt 352

<210> 29263
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-H6
 <400> 29263

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 ctcaccggcg ccgccaagtg acacgacctt gacagtcaat atgctctttc aggagatggg 120
 cccagttact ttacatgggt ctgttggaca caatgaagcc atccatatat gctattaaaa 180
 atcctgctag tcattatggc tttaaactgt accatgtctg ttctattttc agctaggcag 240
 agcatgttct atttacagca ggccagcaga caccaggcag taatgtgatg tatgagtcaa 300
 ttataaggat ggaaatgttt ttggcagct tttctcagtg gatcagtatc accggaaaaa 360
 ctttttggac acctagatgt cgagagatgc ccattccctg aggaatttca atggag 416

<210> 29264
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H7

<400> 29264

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catgatttcc cagcctatgc tacttgattt gcctccaata attatgtttg atgtataaaa 60
aacaccatt ttggaggcgc aggggcaact gagcaacact atgtattgac tatcttagag 120
atactacagc atatgctcct tgtaaagcag gttgagacta tcattctgca gttcttatta 180
tataggatga ttacgaaggt aacatgtttg ggacagtaac atttgcttga aatgtatata 240
gtctacaaca agaataatgc cagcattctt gaaatgtatc gcctaggaga atgctagcac 300
ttacgggtgt gacgaacgat ctgctgtcgg ttgagatgaa aaggcgttcg ccttctatta 360
aggatgtaaa tggtaaaaa ggatgtaaaa ggtacagata ttatc 405
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<210> 29265
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H9

<400> 29265

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cataacattg ggagctctgt acagatcaaa gaattccatc cttgtgtttg catggaccca 120
gaaaatgcag atttaagaat gatgcgagtg atggaggcct atcaggtaac tttgtgtact 180
atagttgtgt gtttctacaa gtgcgtatgg atgctatcat aataaccacg atcaaacatc 240
atcaaacaac tacaatttac agtgcaagtt tgggtgcgcaa ttggtggtga tattatcttc 300
tagacatata tagatttatt aatttcccct ttttagtaga cattgcctat ttttttctac 360
aattgagttt 370
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<210> 29266
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A1

<400> 29266

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gtgatggtga caatctggaa gggaaaggtg ttggtgctcc atttgagcag gggaaagggg 120
atgattcatc gccagcggag gtgcattgga gcagcatggt tcatcagact ggtggtggca 180
tcagcatcgt ggactagaga ggttgcgctt atgtgagagc ctagagttca tggaccgatg 240
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ttttatattt ttttatttta tattctactt ttattattat ttatttctat ttacttttat 360
ttacgtaata tatcttctta ctttttttat tttcttttct ttttattatt tttttttttt 420
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<210> 29267

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-006-Q1-K1-G11

<400> 29267

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ctcattgctg caaaggaaga ggaggtcacc gaagggaaga ggcttcctct cgaggaggtg 120
gaagagaacg catgcatcag ccactgaaca gaacaagcag gcgatttttt tgtgtggatg 180
gcgtctgcc aaaaaggatt gaatcgagga gtgtgctctg gttgtgaagt gataactagg 240
ctaccacatg ttcattttca aaagttttcg tgtgtgatcg tgatcagggg tgaaactgtg 300
gtttcagcca acaaacttgc aagttctatt gcttcttccc actttttttcc tttatatata 360
tnttggatcg gttacagaac atggtttatc cagtgggatg ctgatgaaag atgctaagtt 420
cgcttaaaat aat 433

<210> 29268

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E4

<400> 29268

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gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120
gcgctggccg tgctcctggc ggcgaccgag gtggctcccc cggccgcggt gcgcgcggcg 180
atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240
ggggccatgc cggcccagcc gtgctgcggc ggcattccga gcctgctgca gcaggccaac 300
aacacccccg accgcccagc catctgcggc tgcccaaga acgtc 345

<210> 29269

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E6

<400> 29269

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gggatgggac agaaggacgc atatgttggc gatgaggcac agtctaagag aggtattctt 120
actctcaagt acccgattga gcacggtatt gtgagcaact ggtatgtcat ggagaaaatt 180
tggcatcata ctttctacaa cgagcttcgt gttgccccat aggagcactc tgtgttgctt 240
ac 242

<210> 29270

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E7

<400> 29270

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atatcgttcc ttctaccctg caaggcaaga ccggttcatg cagcgatggg tagactcaat 120
gactgaccct cgcattgccc atgaacaccg taccatt 157

<210> 29271

<211> 348

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-006-Q1-K1-E8

 <400> 29271

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 gttgaagtgg ataattgttc tcatccttct aagactgtga agccacttga tggtcctcag 120
 tcagattcta ttacagagaa taatcagcct tctcataag ctacccttaa tatccagaac 180
 aaagtgcaaa gtagttccac cagaagctgc aagaagggtc atcatatgtt gcaccttttt 240
 ccttgctagt agtcattcct tgatacataa atgctnacta ggcccaaacc ttcaattgaa 300
 tactttctcaa agtatgctcc atagagttaa tgtactctgg atcccttt 348

<210> 29272
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-E9

 <400> 29272

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 tectcaagga agaaaagaag ctgaaccatg gggaagagaa agtcagctgc taagccacct 120
 cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg caaccacggg 180
 agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc ttgtagaatc 240
 ttgcaggaaa acttcaacac aactgttaaa gcacttactg agcct 285

<210> 29273
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-F1

 <400> 29273

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gtcctgaata cggaggctgc ctttaaggctg aaaagggacc atggaaggac ccaaacatac 180
 ttaagatagt ccaaagtggg gaggttcatt gtgctcgtca aattgtaact atttccaatg 240
 gtgaagaaaa atttattact tatgccaaac cgaagcacca ttcaatgcga gggagtgcga 300
 catcaactgc tgagtctggc tcataagctg acgatgctat ctccccaaa gctctcagag 360
 gttacataca acatcctaag ttgacccc 388

<210> 29274

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-006-Q1-K1-F10

<400> 29274

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 gccgcctgct attcgccagc gcgcacatc atctcctgct cagctaccac cacctcctca 120
 ccgtcgtcag cgcgcacgct gcgcgtcgcc gtagtggggg gtggccccgc gggcgcgtcg 180
 gctgccgagg cgttgccctc ggccgggggcc cggacgttcc tctcgcagcg cagccccgcg 240
 ggccccaagc cctgcggcgg cgccatccca ctctgtatgc tggacgagtt cgccatcccc 300
 cgggacctcg ttgaccgccc cgtcaccccg atgcgcgtgc tctccccctt caacctcgcc 360
 gtcgacttct cccgcgcgct gccccccggg gcgcacatnc ccatgctccg gcgcgaggtg 420
 ctcgatt 427

<210> 29275

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F12

<400> 29275

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 ggggctaatac ttgttcttgt atgtagcgca ttgaaacaag tactaaagga aaggctcgtga 180
 tttggtttgc gtacctttta ttcacttccc tatattatct ttaaaagcac ttcgtgattt 240

tcagatgaat agcaatgtct gcatattagt gcgttcattg atgaatttgt ttctagggttt 300
cctctcatac aatataatgg tgtcaaagcc tgtagtgcct gtcttcctgt tggtaggtact 360
cataatcaca tcccagtttg aatggaagca acagcttgta aacgagttgg aatctacggc 420
tcgcaaccag aaacatgttt caagtagaga 450

<210> 29276

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F2

<400> 29276

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cacccatgac tacaacgtgt tcagcttcca cccggacaac tcgccgtgcc acggcttcga 120
ggaggtcctc gcctgctacc gcaagatcgt gccgcacctc aagctttccg ggccgacgtc 180
gttcgcgccc atcgtggagg cggccgtcga catcgtggac cggagcgggg ggagtagcca 240
cgtgctcgtc gtggtcgcgg acgggcaggt gaccaggagc gtcgacaccg gtgacggcga 300
cctcagcccg caggagaaga gaacggtgga ctccattgtc atggcaagct cctacccgct 360
gtccatcgtt ctggttgggg tcggg 385

<210> 29277

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F3

<400> 29277

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tgtgcatatt gcatcataca agaacacagt gcctggggat gttttatcta ttgtgccagg 180
atgcatcatg atgggaaccc cagctcctac gtcgagagga tttgttgaag aagatttcgc 240
taaagttgct gacttcttcg atgcagcagt gaatctggcc ttgaagatta aggctgcaac 300
gaccggtgga acaaagctta aggtctttgt tgccacttgg caatctga 348

<210> 29278
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F4

<400> 29278

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gcgtcgcgcg acccgccag atctcgcca ccctgcgcg cgccatgga taacttgatc 120
accctcgtca acaagctgca gagggttgc acggtctctg gagaccacgg agaggagagc 180
gccctccga cgctctggga ctgcgtgccg gctatcgccg tcgttgagg acagagctct 240
ggtaaactcat ctgtgttgga gagcgtggtt gggaaggatt tcctaccgag gggttcaggc 300
attgtaacct gcgtccgct ggtgctgcag ctccacagaa ttgatggtga cagggaatat 360
gcagagttca tgcattctcc gagaaaaaga ttacagatt ttgctg 406

<210> 29279
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F5

<400> 29279

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gaccttgaaa aggcattctca gcaattttca aagaacctgt acgagttcaa ggttcatcca 120
acaacattga tcccatagca agttgggaat atgtatacag tatcacttct atgctgctct 180
tgcategggtt atacataata gacatgaaac tctggcaggc cagaggattg ttatgttttc 240
gtatggcagt gggttgacat caacaatgtt ctctttcaag attaaagaag gccatcacc 300
tttcagcttg cttaacattg catacatatt ggatgtttcc aagaaattta aggcaagact 360
tgttgtgcat cccaagaaat ttatcga 387

<210> 29280
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F6

<400> 29280

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ggttgataca aatatcaagg ggacagcaaa tgtgcttcgt cattttgtac cacttatgat 180
agcgaggaga catgggatta taattaattt aacctctggg tggggaagat ccgctgctgc 240
agaagtcata ccgaaagcca ccaaatgcat tatagttgat cctttctggt gaatcaaaat 300
ccttattgca tactaaattg cacgttgcca tttcaggttg ctccatattg tgcttcaaag 360
tgggcgattg aaggcttgac acgctc 386

<210> 29281

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F7

<400> 29281

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gcgagcattg aagagctgaa gcagaaaatg gaggggcagt caaagggaaa atcccctatg 120
aactctgagt acagcagtgt gagcgctcag gtgcatgaga cagagggccca tgtcttgga 180
cagatcaatc tgaacaacaa attgactagg acggctgaga actacccac actgtcagat 240
aatatgagca ccgagcgaga agggatttcc agcaggagga agatcttcga gcagggtgcag 300
aaagggtcgg agaattgtggc aagggtggaa ctggagcttc agaagattca gtatgtcttg 360
ctgaagcttg atgaagagca cgagtacaga aggctcaaag tctctgataa gcgcac 416

<210> 29282

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F8

<400> 29282

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agagtgcagg agaagctgca ggaggagctg gaccgtgtcg tcggtcgcga ccgggtcctg 120
tcggagacgg acttcccga cctgccttac ctgcatgccg tcgtcaagga gtccctgcgc 180
ctgcacccgc cgacgccgct gatgctcccc cacagggcca gcgccagcgt caagatcgcc 240
ggctacgaca tcccgaagg cgccaacgtc gtcgtcaacg tgtgggcggg ggcgcgcgac 300
cccgaggtgt gggacagccc gtcgagttc cggccgagcg gttttctc 347

<210> 29283
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F9

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caaggtgggtg tcgtacagcg tggaggacgg cgagctggcg gacttctaca agaacttcaa 120
gatcacgctg aaggtgactc cggccaaggc ggacggcgag ggcgggcgccg tcgtcagctg 180
ggccatggag ttcgacaagg ccaacgacca ggtgcccagc ccggacgtca tcaaggagac 240
cgccaccaag acgtttcacg acctcgacga ctaccttctc aagaactaga ttgagcgaca 300
actggagatg gtccagtaca gtacag 326

<210> 29284
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G10

<400> 29284
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accgaagtgt attttatgtc ttgttggtta cctggaattt aattaaaacc atcacttgta 120
tccttttgag aattgggcaa ttgatgtgtc gttttctggt 160

<210> 29285
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E3

<400> 29285

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ctctcagctt tccgcatcgt cgacagcaca gacatcatca aggagacatg ggtgctcacc 120
gaggaggcca agggctacgc cgccaagggc tcccccgagg cacagctcgt cgccgcaatt 180
tcaccggagg gtgcctctaa ggacgcactc aaggcaatat tgggagatgc tttcgatgtt 240
ggcatgaaag cagccgcgag gaacaagtgg ataggtttcg agaaggggaa taaggactta 300
gtccttatga aggttgagag cgtaaaggat gagctgcaag agcagcttat aagactagag 360
aatggtgaag ttgtttctga taaagtgatc gatg 394

<210> 29286

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C1

<400> 29286

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ctgggaatgc cagccccctcc gctgaggatt tgactggcat tctggagtca gttggctgtg 120
aagttgacaa tgaaaggatg gaactgctgc tgtcccaact gagctggtag gacatcacccg 180
agctcattgc cgcgggcaga gagaagtttg cttcagtccc atgtggcggc ggcgggtgtgg 240
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aagagaaggt ggaagagaag gaagaaagcg atgatgatat gggcttcagc ctcttcgact 360
aggttgacac gtcacacag tattgggtcc ggcagtgaaa tcaaagggaa ccagagtcac 420
g 421

<210> 29287

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C10

<400> 29287

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 tttcgaggaa ttggacacat ggctaatcca tcaaacagtt tggttctgaa ggttctatca 120
 acctctccat cagcttattc a 141

<210> 29288
 <211> 257
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-C11
 <400> 29288

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 atttgaggga gcctggacgt ccaacccttt gatctttgac aactcttact tcaaggagct 120
 tctgagcgga gagaaggaag gccttctgca gctaccaagt gacaaagccc tcctctctga 180
 tccatccttc cgcccacttg ttgacaaatc ccaattctga aagcttcagg tgggcctcgg 240
 ctagttctag atcgca 257

<210> 29289
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-006-Q1-K1-C3
 <400> 29289

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 cgtcgtcgac gtccctcggtt tcggttcatt aggtagatcg agtcttagcg ttcgtctttg 180
 cgctctacg ctgagacggt ttgtttgggt taattaagtt agctttcgtg gagatttcgc 240
 cccggggcat caaataaaat gttggcatgc gtggtgggat gctatccttt atttttattt 300
 tattgtattt tttagcttgg atcagtttgg gttttgaaca ttgctagtgt cgtgtgattg 360
 ggaagggcta agtgatgcct ttcatgcaga agtttcaatg aatgcctt 408

<210> 29290
 <211> 191

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-C4

 <400> 29290

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 tgtttttacat tgtcgtagtgt tttgataaat gatggatgggt gactggggtt gttgtgtcaa 120
 ctgtcataac tattgtgcat ttttggacgc tatatgtgta gccttgatat gaatagattt 180
 actgtactta t 191

<210> 29291
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-C5

 <400> 29291

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 gccatgaagc tgaagtcctt ctctccctgc cttctcctcc tcgccttctt tgccaccgcg 120
 gcgtacgcgg cgtcggcgctc ggcgtcgcgc gcggcgggccg acgacagggg cgcgggcgcc 180
 ctgtcgcagt cggagttgga gtcggacccg gagaaccagt gcgtgtacac ggtgtacgtg 240
 cggacgggggt ccatctggaa gggcggcacg gactcgacca tcggcgtgac gctgctgggc 300
 gccgacggca cgggcatccg gatccgggac ctggcggggt ggggcggcct catgggcgcc 360
 ggtcacgact actacgagcg cggcaacctg gacatctttc gcgggcgggg cccctgca 418

<210> 29292
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-C7

 <400> 29292

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 gtattagcgt tgacattact ggaagcccta attgtgagaa gtagaaacat atcatgtgtg 120
 ttgctacggg cattaaaaaa aaaaaaaaaa taaaaaataa ataattataa t 171

<210> 29293
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-C8

 <400> 29293

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caggcactgg taacgaagtg tggaatgctg agagctcaac tgttcttcag ctgctgttat   120
cgcttcaggc ccttgttctc aacgaaaaac cttactttta ctaggcggga tacgacaaat   180
ttgtgggcaa ggctgatgga gagaagaact ccatcacgta caatgagaat gccttccttc   240
tgtcatgcaa atccatgatg tatgttttac gcaagccttc aaagcatttt gagacgttgg   300
tcaaggagca tttcacctgc ctggccccgc acattgtgga tgcttgcgag gcttatcatg   360
ggggcgatct cgttcgacat gcgcacgaca                                     390
  
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<210> 29294
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-006-Q1-K1-C9

 <400> 29294

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ttgaggcatg tggtggcata ttctggccgt caatcatgaa gatgagatct cagtacattc   180
ctgaggaagc gagaagcaca atcatgaact tcttcgcgat accactcaac ttatttgttt   240
gtgtggtgct ttacaacgtg aatgcattcc ctatcactgt catgnttggg atgtgttcta   300
tcttcct                                     307
  
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<210> 29295
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D1

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ttggagtgaa ctagagatgg tgaatgtccc tcctctggag gatgccatgg accctatttg 180
tttacaataga actgccctgc tgttaaactt ttgctacttg gcgaccagat tttttcagct 240
attttttttc tc 252

<210> 29296

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D12

<400> 29296

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agcatcctat tatcgcatct aatggcgcaa agataatcga caaaaaaaaaa aatatttttt 120
aataatattt aattttatttt tt 142

<210> 29297

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D2

<400> 29297

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<210> 29298

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D3

<400> 29298

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cttgtatgta atgttgtcag gc

82

<210> 29299

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D5

<400> 29299

cctgtatcga cccaattttc agtgcacgac tccaacttca tcaggagtcc aagcccagat 60

gggcctgggtg ctatgacaag aaaaggcgct aatactgttg ataga 105

<210> 29300

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D6

<400> 29300

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agtgcacagt ttcagaataa cattacaaat aggggtgtttg tagtagatac cactgtgaaa 180

aagagcaatg actaccctgt tggacctata gt 212

<210> 29301

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D7

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gcacccgcgg agacgcggag cctccactcc tgatcctgtc acccaccgtc ttcgtcgggt 120

ctgttgccct ctatatcacc caccgcctct gaagaagaag acgcggattc gagggtaggt 180

aactgctgaa gaagaagatc cggtagcgag aagacgcgga gcagtactta tccgatctgg 240

atgttggtta ggttcactct gatttgaacg gtaatctcac tgataacgag ttcctgggat 300

gaggaagctt gtcaattttt

320

<210> 29302

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D9

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cagagctact catacagtaa cgcaagtacg caacaggagt ttcttcctcg cagcttctca 120

ccagaaaagc ctacacggca cagcaacatc tcgcgcggtc actggtactg actggcaagc 180

tggccttcct tgacgatgta gttctgcacg ggggaagtcc cgcccttgaa atacctattc 240

agcatgtccc tcacaccatc cgcataccgc agctgcgcac caattgtagt ccc 293

<210> 29303

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B8

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gtgggtgaaa gtggaagtcc ctgtctgatg ccgagaaggc tccctacgtg tctaaggcag 120

agaagctcaa ggctgagtac accaagaaga tcgacgctta caacaacatg cagtctggag 180

acccacggc gtctgggtgat tccgacaagt ccaagtccga ggtgaacgac taggacgagg 240

atgggtgacta gtgatgtatg acggatgaaa ctctgtccaa gtgtttgcag tcagggaaaa 300

aatctcgtcg ttgtcggcct aaccgggttt tctcgaagga ctttctagat gcatgttatt 360

agtgcgctct tctgagtagt ttccttgcaa gtgtcgtccc gtc 403

<210> 29304

<211> 435

<212> DNA

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<400> 29304

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atctctctgg ttcttctttt agcagcaggg acgcacaaca caagaaaagg tccggttcaa 180

gaggctcttc tggtgggttt ttttagaatc ctcaagagaa gcgtgttctt gggttaggat 240

ttttttctca cctcataaca cctctcctag gaggaacaga gatccagaga accttttttc 300

tcttctggat ccttgccgcc ttttggcgtt cgaaaggggg ttgttttgca ataccctctc 360

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cagagctggt ttttc 435

<210> 29305

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E10

<400> 29305

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aaggtegtctg actgctggaca gctctcctag atctctctga tctgggtctgt tggccgccc 120

tccctccgtc atcgtcgact cccctcgtt ccgttccttt ggatctgaat aagatggtgg 180

tgatctgagt ggtggtctta gtttatcatg tatcgtcgc agtttaattt agcggtttag 240

gtgtggatct gtgaacccca tggcgctct gcttgattcg tgtttcacct gttatgttct 300

gagattcatg ataatgctat gagaactgaa attcccgttt 340

<210> 29306

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E12

<400> 29306

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ggatataaaa aaaaaaaaaa aaaaaaataa ataaaaaatat ataaaaaata gaaattattt 120

tattttaaatt aaaattttatt tataatgtttt atgatttaa atatttttatt ttttttaaata 180
tatttttattt tttattaatt ggttttttctt tttttaaaat tttttaatta ttatttcatt 240
tttttttatct attttattttt tattttttttt tttattttatt tttttattta tgttttatat 300
ttaattattt tctttttata aatttttttta ttaaattttt gcttattttt tttttttttt 360
tttaatcatt tttttattttt ttctttttttt tttgattttt tattttttttt ttttcttttt 420
tatttttttat attttgtata tttttttttt ttgttttttt attttttt 468

<210> 29307

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E2

<400> 29307

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ctacgcctcg gggaccgagt tctaccgca cctgctgctt ctgtgcgcga acgcgctggt 120
cttctaccog cgcgggtcgc ccgagcgctt cggcgcgggc cggacgcgcg cgctcgtcgc 180
caagcacatg tccaaggatc agccggggcc ctcggggaag gctgtcgcgg ggcccgcggc 240
gttcaataag gccaaaggcg aagccgacgt tgggtcgctg ctggagaaga ctgc 294

<210> 29308

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A11

<400> 29308

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caccagacc cagcagctat tgtggtcgtc cctcagccgc gtcgcaccgc atcgattct 120
acgattcgaa gctctctctg ctgcgagcca tggcgaagaa ttaccaacc gtgagcgccg 180
agtacagcga ggccgtcgag aaggccaggc gcaagctccg cgccctcatc gccgagaaga 240
gctgcgcgcc cctcatgctc cgctcgcgt ggcactccgc ggggacgttc gacgtgtcgt 300
cgaggaccgg cggtccttc ggtactatga agtgcccggc ggaactggct cacggcgcca 360

acgcggggct ggacctcgcg gtgcggctgc tcgagcccat caag 404

<210> 29309

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A12

<400> 29309

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atgaaccaag tgcttatctt gattcggagc agcgtattgt ggcctcaaag gttatcaaga 120

gattcattct tcacgcgaag aaaactgcat ttattgttga gcatgatttc atcatggcaa 180

catacttggc tgacaaggctc attgtttatg aggggcgacc ttctattgat tgttctgcc 240

atgcaccaca gtcttttagta tccgggatga ataaattctt atcgcatctt gacattactt 300

ttagaagaga cccgaccaac tataggccac gtataaaciaa gttggactct acaaaggaca 360

gggaacagaa gtcggccggg tcctactact acctcgatga ctaatgagga agcacagatt 420

cttcttggag agccatatgg cgcatagtct tt 452

<210> 29310

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A2

<400> 29310

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tcgggcttgg ccacggcgcg cgtttcgctc gcaagcatgg acgtgctgcc gctgagatgc 120

cccagtcgga gccacaacct aaaactaagc cggagcccca tatgcagaca ctgaccagc 180

cagaacctaa accgaaacct atgccacatc cagagccaaa gcctgaacct taaccaaagc 240

ccaacctga acctcaacca atgcccaagc cttaacaaa atccaaacca gagccattgc 300

ctacaccgaa gcctgaacct aagcccgaac ctaagccaga gcctaagccc gaacctaaaa 360

ttaaatcaaa gcccaaacct ggacaaaaac cagagcctat agcagagcat 410

<210> 29311

<211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A3

 <400> 29311

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 cgcgacggcg gtgcggtggg cggcgaagaa ggggaagccc aagatggcgc cgatcgagct 120
 gacggcgccg ccggagcagg cgcagtccat cacgcgcgcc atcttcgacg ccgtccggga 180
 gcacgggtccg ctcaccgtct ccgacgtctg ggaccacgtc aaggatgtcg ggcttcgagg 240
 tctggcaagc aagaggcaga tgaagatcat gctgcggtgg atgaaggagc gccagaagct 300
 aaagctcatc tgcgaccacg acggcccgca caagcagttc ctctacacca cctgggtttac 360
 caaccccagg aacgcg 376

<210> 29312
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A4

 <400> 29312

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 gatgaagctc gtcaggttct tgatgaagct gaacaacgaa acggtgacca tcgagcttaa 120
 gaacggcacc gtcgtacacg gaaccattac cggttatccg gtcgattatg gtttacatat 180
 acggacagct atcttcagat agtgttgaca tcagcatgaa tactcatctg aagactgtga 240
 agctgacact aaaagggaaa aatcctgtta cccttgatca ccttagtgtg aggggaaaca 300
 acatccgcta ttatatacct cctgacagcc taaacctgga gaacttgctg gttgaggaaa 360
 caccaagggt caagcctaag aagcctactt ctgggaagcc cttgggccgt gggcgt 416

<210> 29313
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A6

<400> 29313

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tgttttacat tgtcgtagtg tttgataaat gatggatggg gactggggtt gttgtgtcaa 120
ctgtcataac tattgtgcat ttttgacgc tatatgtgta gccttgatat gaatagattt 180
actgtactta t 191

<210> 29314

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A7

<400> 29314

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tcccttccgg agatactgtg gaggtgttgg tcgcaccgca caagcaagtc tcgccactcc 120
aatgggcacg gtcgctggcc tgtaagtca gccaggttca tattggattt gctgaagaat 180
gctgagagta acgctgatgt gaaaggcttg gacgtggaca acctctatgt ttcacacatt 240
caggtgaacc aagcccagaa gcagaggcgc cgcacctacc gtgctcacgg acgcattaac 300
ccttacatgt gcttcccttg ccacattgag ctgattctgt cagagaagga agagcctgtg 360
ataaatgacg ctgacaacat tgtcgcgga aggaagcagt gaagtatggt aacctgctga 420
taatggcatt ctttcgaagc 440

<210> 29315

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A8

<400> 29315

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gcgaagacag ttttcaagaa gaaaaactgg atgtgcatcc tctgctgta ttagaagaaa 120
tttatgctgc ccatgatgag cagaagcaat gtgatgtttt atcaccagta agagtattct 180
gatgaagggt ggcaagcagc tagtatgaga ggaagatctg caaatgtaag gaagaaaagc 240

agtcgcagga aaccggctct tatgaaatta atggttgatc attttgaaga tggtcataca 300
 ggttctgtgt ataggactgg tttaaacct cagacaaaag gaggcaaaga agattctgtg 360
 agtgcttcta gccagctttc atttgaagt tttttgaaaa cggatt 406

<210> 29316
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A9

<400> 29316

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 aggtcgcaga tccgtccggt tagacgaagc cggccgcacc catggcctcc ggtgagctcg 120
 cctgcaccta cgcgcctc atcctcagcg acgacggcat cgcctacc gccgagaaga 180
 tcgccaccat cgtgaaggcg gtcaacatca aagtcgagtc ctac 224

<210> 29317
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B1

<400> 29317

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 caacctagtc tggtcgattc catgtgggat aatggtttgt ggttggtcca gtaaattcga 120
 gatttcaagg gcgatgggtt agcattattc ccaagctgtc atggatatca gtatcgcagg 180
 gtctgtaaca ggaccataat cgtcgaacat gagtctgggt ttttgagcag gctactctct 240
 agggtttgcg tcatttagtt gtgttttata tctggctact gtatagcctg agtctaatta 300
 tctgcaaggc cgtatggcat tctgagtggt tttggttttg 340

<210> 29318
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B10

<400> 29318

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accaaagcca gcagaagaag ggatgcagca gccgatgcac atgcagccgc aggcgccggc 120
gatagcccca gctgccggaa tcaccacgga gcagatccaa aagtatctgg atgagaataa 180
gcagcttatt ttggctatatt tggaaaatca gaacctaaaga aaattggcag aatgtgctca 240
gtatcaatca caacttcaga agaacctctt ggaattcgct ggaatcgcaa atgcccaaca 300
cgagactggt gtaagccgga ctcaaaatgc gccgccctgg tggatctcct ggagtagggc 360
agtccatgtc acaggtgcct atgttcccac cgaggacacc tttaacaccc cagc 414

<210> 29319

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B12

<400> 29319

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gattccagtt ttgttttagc aataattata acacaataca tgacaataat tttgtgtggt 120
tacaataatt tactaatggt aaacatgaga tattggcaag tttaataaag cttactgtt 180
tctttgttat ggagtaatgt tgtaatggtt tttctgtttt acaaatttta gctattttgt 240
acaaattttc acaaatactt taattatttt gtaccaatgt aaaagcacct gaacatgtat 300
tggtcaagtc gactctattg aatagaattt tgaaagaaag attcttgatc acccaagtta 360
aaagagaaac ttagccttgc ctttcagatt aaactagagg agacatgtat gaaaatggct 420
ggaaagacta caagatgcaa ttaatcattt 450

<210> 29320

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B2

<400> 29320

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cgcgaaat tttt atttgacagg ggagagttat gctgggtcact atgttcctca actggctcaa 120
gccataaaaa ggcaccatga ggctactggg gacaaatcaa ttaatctaaa gggctatatg 180
gtagggaatg ctctcactga tgatttccat gaccactatg gaatatttca attcatgtgg 240
actactggcc tgatctctga tcaaacatac aagctgctga atgttttctg tgactacgag 300
tccttcgtgc attcgtctgc acagtgtgat aagattatgg atattgctag cactgaatct 360
ggaaacattg attcatatag catcttcaca cctacatgtc atgcatcttt t 411

<210> 29321

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B3

<400> 29321

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tcgcggacgc gtgggaaaaa ataaaaaaaa aataa 95

<210> 29322

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B6

<400> 29322

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tattcatacy cggatcatata gattcagcta aagagagggtt aacgacattg ctagatgcac 120

ttaagaatga gtctacatgg catgtgtaat ggctcctggg cttgtctata ttgtgggcac 180

tatcaagtat ggggtgagcta aaaagtgcac ataatatgtt ggattcattg aattcaagg 240

tacgtttaat ggacaggaat ctgttgcaag ctttgcaaaa ggcaatctag ctggctgatg 300

ctgctt 306

<210> 29323

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B7

<400> 29323

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cgaccaccac tggccacctg atctacaagc ttggaggtat tgacaagcga gtgattgaga 120
ggttctagaa agaggctgcc gagatgaaca agcggtcatt caatgttgcg tgggtgcttg 180
acaagctcaa ggctgagcgt gagagatgta ttacaattga tattgccctg tggaagtctg 240
agaccaccaa gtactactgc actgttattg atgccccggg acaccgtgac ttcataaaaa 300
atatgatcac tggcactttc caagctgact gtgctgttct tatcattgac tcaaccac 358

<210> 29324

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A10

<400> 29324

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tgaacatgat tggagtgccg tcgacgagcg agtacgatca catggccctt tttgttgact 120
cgagaaactt tcttcaggtg aacatgcagc agcagcagcc ttagcactac ttccatcaac 180
tgcaaccaac gacccttcaa ctcgatgat gtaatttaga atcttttgcc aacaattca 239

<210> 29325

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G3

<400> 29325

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gtgtgggcta gccgctttgg gcgctggcg gcacagcggc accgacgcac cgtgggtggc 120
tgggtggcg tggcactgcg gcagctggcg gcaggcactg cggctctgcg cagccggcg 180
ctggcactgc ggtctgcggc ggccggcgcg cgacaggagc agccgagccc ttcggctctc 240
tgcgctctct ccggttgctt cagagtctgc ctttagtgct gctggcggg ttgttgatcc 300

ataticgcaat cgncttgacc ctgagatggg acaagcactt atatgcacta aaaattggat 360
tcgtgcatca agaaaagatt cagtaattat tcattc 396

<210> 29326
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G4

<400> 29326

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agagggtccgc gatgctgcta gagaagctgc tcttcgtgag atcaaggagc gcatcaagaa 120
gaccaaggat gagaagaaag cgaagaaggc ggaggtgagc aagtcccaga agacgcagac 180
aaaggggtgcg gtccagaagg gttccaaggg cccaagttg ggcggcggtg gtgggaagcg 240
ctgaaagaac ttagtgctgt ttctcgacat tgcagtcgtt ccttaaccaa agccactttc 300
gtagaacctg tgttgaattt gcaagactta ttcaagcgtt gcttgtgcgt gctaaatacc 360
atggcaagaa gacggattta tatttatgcc tg 392

<210> 29327
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G5

<400> 29327

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tccgcgcaga agagaacctt ctccaagtgc caccaagaga tgtagcttta aaggagctc 120
aggccgctgt tcaatacatg gctgaatatg ttgccaagaa agccacaagg tcacaaccga 180
tgaagacaaa gaagacctgg gctcagtttt gctttttctc ccggcctaac aaaagaaagc 240
acgaccgaat agacaccgcg tcgtgattca ctgtgagact gaactgcttg ttcctcaact 300
ctacacttct gaagagaact atcgggtgca tcgccttcga tcgctaccat tgtgttgat 360
gggtcaacaa gatgtgatgc ccagaagctt ttccttgagc aatgctgcag 410

<210> 29328
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-G6

 <400> 29328

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 aacaaggctg tctcgaagat tggacagcac atgtctggtg gtggctctgg cggctcgcaa 120
 tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggcagagta tgaggaggtt 180
 aagaagtgag gctgccggag ttcaaggga ttgtaacggc ttgttttagaa gtagctcgct 240
 tttttttggg aacgcacata gtcagatgtc tcagatgagg tgttaccctg gttgcaataa 300
 tctatgaact ttcacctctt gtgttctcct gcagtgaac acgggtcaca acattgtcat 360
 aggtcttatt gcgcatataa ccccttgctg ccc 393

<210> 29329
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-G9

 <400> 29329

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 cacttcaccc gcctcggcgc catggctaag ctgcgctggt cgctggcgct cctcctcctg 180
 ctggccgtgg cgctcgtccg gtcggccagc agcgggagcc acctggatct cgacctgggc 240
 ttcctcttct ctggggaccg ccggaaggag tgccgcggga cggtaggcca gtgcctcgcc 300
 gaggagtccg atgaag 316

<210> 29330
 <211> 81
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-H1

 <400> 29330

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 tgggtgcgcgg cccggagccc g 81

<210> 29331
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H10

<400> 29331

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 cacgtgcgcg agacattaca aggaacctga tgaccttagg gtactgcaaa gaaaataact 120
 cgattatccg atcgaacaca caaggccaca agggactaac agcaattata gagcaccacg 180
 gcgctggcac agatggacgt atccagtcac acggggccatt gctgctgata tacgacacga 240
 gacacgagag gatagcaggg cctgacaag acccaaattgg gaccatgtcg aattattgcc 300
 gcatgcacag aaaagctcta gttttcctgg gcaccttcat tagccacggc ttccttctca 360
 accaccgacc cgcttggctt ctcttcgggtt gtcgggcgct tctcagcctc agtgggtgctc 420
 gcggtgct 428

<210> 29332
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H11

<400> 29332

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 gctcccgaac ggatgatctt tgcatggcag cagcagctgg ctccaagggg cgggcgatcg 120
 ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctgcgagagg agggccgtgc 180
 acgcctcggc gtacgacaag aacctggagg accaggtgcg cccggcgctc gtgcccggacg 240
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 tggtcggccc ggcggcggtg gaccccaagc tggccgctgg tggcgcgccg gacgcggcg 360
 cggatgctgc aagaggcacg gtgctggacc agaaggtgtg gttccgcccg ctgaggacg 420

tcgagaagcc ggccc

435

<210> 29333

<211> 250

<212> DNA

<213> Zea mays

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<400> 29333

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aggaaattgt atccggtggt tctcttttctt caaattaaac cacgcacatg cagctgccgt 120

acttttttga ccattgaagt gtttcgtccg tgaaaaaggc tctttttacc ttaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggca aacaatttaa 240

aagatcaaaa 250

<210> 29334

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H2

<400> 29334

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tgttatctca gctttaatgt tggtcgaagt gagaaatgtc aggcagcaag agaagaaaag 120

atgcacatat tgccatggga ctgggtactt gccatgtgct cgctgtcctg ctagtggaa 180

gttatggacc acaaagcact tttaatta 208

<210> 29335

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-H3

<400> 29335

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gcttcggctg cttgccttct ccttgccttt cgcagtggcc actcctgtca gggacatcgc 120
 cgatgatgcc tgctcgtcac aagtgaagg tttccagcac ctgaacaaca gctcggggct 180
 ccacctgacg ctgcaccacc cgcagagccc ctgctccccg gcgccgcttg ccgtcgacct 240
 ncccttcttc gcggtgctcg cccacgacgg cgcgcgcata gcgtcgc 287

<210> 29336
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H4

<400> 29336

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 gaggaggtca agctcaacac cggcaacgtg ttcgcggcgc tcgagtcctt caagaagaag 120
 aagaaggcg acaaaggcaa ggcggccggg tcttccttca ggaagaagca cggcgagggg 180
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 accaagtcct gggccgacgt cgaggacgac gaccatgacg actact 286

<210> 29337
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H5

<400> 29337

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 gcttaatgac gctagaaatt tgctaaacta ttgtagtttt gcaagagttc caacaagacc 120
 acgaacagtg cttgcaaaca ggaatgttgg accatgtcaa agagaaatta ctgtgtctga 180
 acagctcaat ttggttactt ctgaagaaat atccaatatg gcaatggatg gagaagctaa 240
 cactaatttc ataactagca tctaggaagg cagtaaagtt gagcttggtg gccaaagacca 300
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 aaaggaaact cgaggtgaaa ctgaacaaaa aaagaacaa 399

<210> 29338

<211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-H6

 <400> 29338

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 caacccttac acgtttggtg gcaaaattgg ttaattcctt gcctttgact tgatctggta 120
 gtaccaagga aataagcacg ggaaagatgc aagctttgtg tcgaacatgt gaaaaaaaaat 180
 atatatgtat gagcaatfff tgtctttttt ttggggccag ttgtagctgt tactaccatt 240
 aaacagtaag caaaactggt tgcattttta aaaaaaaaaa ataaatffff aattaaaatt 300
 tataatattt ttatat 316

<210> 29339
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-H7

 <400> 29339

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 gggctttttt ggtcaatggg atcggttccc ttggcattgg tcttgagatc catgcttccc 120
 ttaatggcaa cccgccaagg gggaaaaaac ccacctaacc ctttgggaaa attg 174

<210> 29340
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-G12

 <400> 29340

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 ggaggcgctg ttccagttcc agttccagga tgagcaagga ggatgtgctc aagggtgcaga 120
 ctttgatgct gagagtgaac atacactgtg acgggtgcga gaagaaggct aagaagacct 180
 tccacaagat cgacggtgtc tatcagagca gcatcgacgc ggaacagggg aagggtgacg 240

tgtccggcct gctggatccg gacaccatca tcaggaagct caacaaggcc ggcaagccgg 300
 cccagctgtg gggctccaag cctggcgctcc ctcagaacgg ccatggcggc ggcaaaggcc 360
 agcctaagga cgccggcggt ggcaagggcc attccaagga tgccggcggt ggcaaggccc 420
 aaaagggc 428

<210> 29341
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-H8

<400> 29341

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 ttacggaagc ttcccaggct ttcgtcaggc ttttctccgg caacgagcac cctgcacaga 120
 tcgtgaacct ccacacctca acgatagatg gcgggggttca gaagccttgc acccaagacc 180
 aggaacctgg tgggtggccgg gggactgtct ggcttcgtgc tcgggggtcta ctacttca 238

<210> 29342
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H9

<400> 29342

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 taccaaagat ccatctgaag gtgttacagg tttgctaaaa ttcagctttt aaggaattcg 120
 atccgcatac ttgtacctgg tctattgtca ggacttatgg aaaatcaccc gtttctcgcg 180
 gaggtcagac agtgactctt gttggaacaa cactagtttt gttcggtggt gaagatgcaa 240
 aacggtgcct cttgaatgac ttgcacattc ttgatcttga aaccatgaca tgggatgatg 300
 tggatgcaat gtaagtacaa gaatcttgat tcttaatgca cacctaata gaagataagg 360
 ccattatttg tttcgtgaat ctttgcctat tgagcttaaa atgtatcttt ttaaaagctc 420
 ctagatttgg ttggcgcact 440

<210> 29343
 <211> 67
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-006-Q1-K1-A1

 <400> 29343

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 cgtgggc 67

<210> 29344
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-E5

 <400> 29344

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 ttgacgacac gcttctggct cgatgtatat cctgtcaaaa aatttggtct gctgcatgaa 120
 catatatagt gcgtcactgg atagctatgc acacgatgat atatcagtag gttcatggat 180
 gatgggactg aatgcaactt acgtggatga tgaccggttg tgctgcagca ggtccagaca 240
 agagaaaatc tgttgcaatg cttgagcgga aggcgtggct gctggcctgt agctgtacat 300
 cctgatgaag atagtgcaca cctgtcattt tgtatacact gctttcgtga accggaaaag 360
 gctactatcc agatagaaac ggcttgcacc aaaaatta 398

<210> 29345
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-E6

 <400> 29345

 gtcatcattt ttccccatct ctgttggatt ttctgcatcg agtactttca gtgatctgaa 60
 ggttactgga atccttcctc tgaaggaagg caaccctccg aagttttccc agcgggctcg 120
 tttgctcaca gctaactatc aagttgttta atggttgtag cgttgtccga gtgttgatcc 180
 acttaaatat attcgaatag catatTTTTTg tgacatggta tgctactggc atgaactttt 240

gcaagtcatg ggatggaaga tcatttttggg ttttgaaaat ctttactatg tgctttctcat 300
 tggtagcatg ttgcacaaat gttctgatgt gttgctacca gagaaataag taatgttctt 360
 gcctttcgtt tgccctgcatt ttgtaccctg tctttccct t 401

<210> 29346
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E7

<400> 29346

cggacgcgtg ggcggactcg tgggaaaaaa aaaaataaaa aaaataataa taagattata 60
 ggg 63

<210> 29347
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E8

<400> 29347

cggacgcgtg ggccaaatgt gaaccagaaa ttcaagaggt tagcccaatg accgatatat 60
 gcctcgaaaa gaaagccaag gcatactcga aaaaaagccc taaagatgaa agcgacactg 120
 aagatggcag cagctgggag acaataagcc acgaagatgt ccagggttca agcggttcac 180
 ctgatggaag cgagccttcg gtcagcaaca aggtctgcga cggaagcatt ccttggaaga 240
 gcagaaatgg t 251

<210> 29348
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E9

<400> 29348

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 gagaaagatc gagaagagag gagccttcgc ttttggactt gcaccgtcgt gatctgtccc 120

gcgaccacat gaggatccac ccagcatccc ccaccgccgg cggcaagaag gacctccggc 180
gcttgccgca cgtgtacagc aagggtgctgg agctgcgct cccggcggac accgacgtcc 240
aggtgttcga agggccagac gccttcact tcgtcgcggc gccggccgcc ggtgcgcgtg 300
ccgccccac cgtgcgggtg cgcaccgtca ggatccaccc cggggtcacc aaggctcgtg 360
tgcatgccgg agccgccgaa cgggccgctt acgacgacgc cgtcagcgac agcatggagc 420
tcgacaggt 429

<210> 29349
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F1

<400> 29349

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atcctgaagc aggaagatta gagcgatgac caggataata ggaaaaggaa acgaaggagt 120
attagctcac ttgaagatag gaagaggaag aggcaacgtg aaaaggaaga agatttggca 180
gataaaataa gggaagaaga ggaaa 205

<210> 29350
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F10

<400> 29350

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cgccttatgc aaccaaattg gtgaaagctt actctaagta gacatctaca gaagatgaca 120
ctaccaatat aaactcatag gaagcttact atgataaacc ttactagtcc tataaaagcc 180
caaaaatcta tgcacagact ctagacattc aattctacta atagaaattt agttcatgta 240
tctgattaac gatatatgag ataactat atagtcaacg tttcatctaa caattgctat 300
tatttactaa tcatatatct tgaccattta gtttaacatt acttgttcac tatttcattt 360
ta 362

<210> 29351
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F11

<400> 29351

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cccacgcgctc cgcgggacgcy tgggaaaaat ttataaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggctgtt tttaaaggatc aaagtttatt 180
tacgtttgat tgcaacgtta tagttttttt atagggtaat ctaattttaa ttaattggcc 240
gtgtttttta aacttggttat ttggaaaaac cttgggtttc ccaaatttaa tggctttgaa 300
gaaattccct ttttagcaag ttggctaatt tgcaaaaggg ctctaacgtt tcgcttttcc 360
aaaaattttc taagtttaat tggcaattgg gaccctcctt ttaggggctt ttaaaccctg 420
tcgttttttg tggtt 434
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<210> 29352
 <211> 335
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-F2

<400> 29352

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ctgaccgctg ggtgttcccc gagaccaaca ctggcatcat tgtccttgct gagggctgcc 120
tgatgaacct tgggtgtgct actggccatt ctagctttgt catgtcctgc tcattcacta 180
accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatgataaga 240
agggtgatgt gtttcccaag caccttgatt agaaagggtc tgctcttcac ttgggcaagc 300
ttggtgcccc gttaccaag cttaccaagt cttaa 335
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<210> 29353
 <211> 393
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-F3

<400> 29353

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caacgtgaag aatgttgctg tcaaggatct caagcgtggg tttgtggcct ccaactccaa 120

ggatgaccct gccaaaggagg ctgccagctt caccttccag gtcacatca tgaaccacc 180

tgggcagatt ggcaacggct atgcccctgt gctggactgc cacaccttcc acatcgctgt 240

caagtttgct gagctcatta ccaagatcga caggcgctct ggcaaggagc ttgagaaaga 300

gccaaagtgc ctgaagaacg gtgatgctgg tatggtgaag atgataccca ccaagcccat 360

ggtggtggag acattcttag cgtattctcc cct 393

<210> 29354

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F4

<400> 29354

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aaagatcccc aaacctaca cccgcccgcg ggcgcactcg gggaccgtcg aatcgagcag 120

gttgacggag gagaggaagc ctcaagatg ttccggaacc agtacgacac cgacgtgacg 180

acatggagcc cccaggggcg gctgttccag gtggagtacg ccatggaggc cgtcaagcag 240

ggctcagcct gcgtcgggct ccggtccagc acccaacgcg tcctcgccgt cgtcaacaag 300

cccgccttcg agctctcctt ctaccagcgg aaggtgttcc gcgtcgctga ccacgccggg 360

gtcgcgctcg ccggccttac cgtcgacggc cgcgttctct cgcgctttct tc 412

<210> 29355

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F5

<400> 29355

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 atgaggtggc gtgcagttgg tagacgcaga tggttctggt taggatgggc acatgatagc 120
 agtttagcca ccaccctct attcattttc atgctagtgc gtctggtagt cagctttggg 180
 ttcctatagt aattgaggtt tgagagagac atgaggatta ggcattgcga agggcgacag 240
 acgctcatga ctcatgagtt tgatgtgcc atgtgcaatt gacgggctga ggaagatctt 300
 agttgatcag ttggtgaat 319

<210> 29356
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-F9
 <400> 29356

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 cgcctgaggc tgccaaatgg ctgaaggctg cctccgagta gacctctgca gaagaatata 120
 ctactgatag agactcatgg gtggctttgc atgctgtacc atactaggtc tatagaagcc 180
 caaaaatcta ggcacagact gtggacagtc aaaagtgcta atacaattta gtctcatgtt 240
 agctgtacac gacatcatga gctatcaact agatagacaa ggggtgcatct aacacttgct 300
 cttggttgct aatcat 316

<210> 29357
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-G10
 <400> 29357

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 gcggcgaaga agcctgcaga ggagcccgcg acagagaagg cggagaaggc tccggcgggg 180
 aagaagccca aggccgagaa gcgcctcccg gcgggcaagt ccgccggtaa ggagggcggc 240

gagggcaaga aggggaaaaa gaaagcgaag aagtccgtgg agacctacaa gatctacatc 300
 ttcaaggtgc tgaagcaggt gcaccccgac atcggcatct cgtccaaggc catgtccatc 360
 atgaactcct tcatcaacga catcttcgag aagctcgcgg ccgagtccgn caagctggcg 420
 cgctataaca ngaagcccac cg 442

<210> 29358
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-E4
 <400> 29358

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 taccaagtgg atccaccaca tccagcgcct cagcgcggcc aaggtgtcgg cggaggcggg 180
 ggagcggggc cagagccgcg tcatcgacgc ctctctcacc ctaattcgcg agcgcgcaaa 240
 gctcaaggca gaggtgctgc gtgctctggg tggcgtgaaa gcttcagcgt cgctcttaag 300
 ggtccctctt gggcacaact tattctttttt acaagggcct gcatttggtt cttcacgcat 360
 accggaaggc attt 374

<210> 29359
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-G11
 <400> 29359

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 cgaggctagc taagctaaga gatggcggat caccagtact cggcgtggac gacttccgct 180
 gctcgtcatc gggctctctc ctgtgcgctc atggctcttg ttagttttgt ggctgcagga 240
 cgacccattg tgctcgccga cgccatcgtc tttcacgtgg cgaacagggtg cccgttcccc 300
 gtgtggccgg cgtccgcccc taacaccggc caccagtgct tcgcccggcg cggtttctac 360

gtcccgagg gcaagtcgag ggcgctcgtc gcgccggcca actggaacgg ggcgttcttg 420
gctcgacccg ggtgcaactt c 441

<210> 29360
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C4

<400> 29360

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atatctggct tctgtcagtg aagactcggc cagaatatgg tcattcagtt ctggacgtga 180
tggtgaattt gtgcacgaat tgaatcgagc tggaaatcag ttccactcat gtgttttcca 240
cccaacttat caatccttgg tagtgattgg ttgttaccag tccttggaaac tttgggacat 300
aaaggagaag aacaccatga cctttaacaa tgcccattac cggttggttg cagcccttgc 360
aacattcaat gcaacaagga aaggt 385

<210> 29361
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C5

<400> 29361

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aacctcggc tccccacgg ccgcccgcga gacggacggc ctcaacggcg gcgtcgcgga 120
ggaggagcag gtcccatca cccacccgc aaagtccctac gtcacgctcg ccgacgacaa 180
ccccgtcct aacggcgggc tcgtgaaaga ggaggagggc ggtgcccaca ccaccgcgaa 240
gtcctacgca gctgtcgccg cccaagccga gatcgaggac ctccgcgccg tcaagctcga 300
cctggaggag aagctcgctg aggcccgccg tgagaacaag ttctcgcgcg aggagacgca 360
ccgcaacgag gggatcttca cgc 383

<210> 29362

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C7

 <400> 29362

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 caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180
 gtaggctggc tcggaagggc ggcgtgaagc gcatttcggg gcttatctac gaggagaccc 240
 gcggcgctct caagatcttt ctcgagaacg tcatccgga cggcgtcacc tacaccgagc 300
 acgcacgccg gaagactgtt acccgcatgg acgtcgtct 339

<210> 29363
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C8

 <400> 29363

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 agccccaga tccggcaccg cccgctcctc gatccccga cccacgccc gcaggccggg 120
 accggcgggg tcgcgcgccg ggtaggagga ggagaagagg aaggcggta tggcgcgcc 180
 gccggcgagg gcccgggccg actacgacta ccttatcaag ctgctcctca ttggagacag 240
 cggtgggtgc tgctagatct ctctgtctca gtaaaccggg gtgtaagggc gtacgtctta 300
 caccgctcg cgttcgtggg atcggagttg gattccgggt ttggcaagag ttgccttctg 360
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<210> 29364
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-C9

 <400> 29364

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cggtgtgtgt gcggcatggg tagcctatga tccacttgac tttatctgtc ataggttgcc 180
tgtgctttca gactttgctg c 201

<210> 29365
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-D1
<400> 29365

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cacagcacat gatggggcta aatcagatgc atgctgggtc tgggccttct ggtactgtac 180
cccaaataggg tgggttccca agtgggatgg gaaacattca atgagcatca agttcgtctg 240
gcgtacaaaa ttttcctatg ggtggcatgt attatccgcc ttaaggacaa atggcttcac 300
aagggcaaata gacattcatt tctg 324

<210> 29366
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-D10
<400> 29366

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ggttctacac tggatagcta gagctcatgc gaccgaatag atggtggatg cattgatggt 120
agagaggaca tgtcccaata tgtgaggctg agcatcactg agacaactcg atcactcata 180
ccagttatca aggagaatgt taagagtatt acaaattgac gagccaccat aaatctcagc 240
tgtgacctac ttgttcatga ttgatgctaa cctgaccaag cattccatgc gttggatgaa 300
gttgatttag ctaactgatt cttgatatga ggtctatgct 340

<210> 29367

<211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D11

 <400> 29367

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 ctctccgttg ccgggggagg acgggtact tgccgggcag cgggttgctg tgctgaagcc 180
 cgacccggcg aaccctaacc ctagcgcgga tggggacggg aaggcggcgt ccgggcagga 240
 ggccgcgcgc gccgcggcgc tcgcgacggc ctgcgtcttc caggcggcgt acctgcacct 300
 gcaggccgcc cagcgcgcgt tcctgccgga cgcggc 336

<210> 29368
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-005-Q1-K1-D12

 <400> 29368

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 atccaaaggc attttatgat gcatttgctc ttgcgatgta tgatatattt gccggaagca 120
 tcaccacata tatgttgggg ctttggttag tctcctcgct ttttttcaaa ggaggttgca 180
 tagggtacat agtgtaatct tttctatttc gttcctagat ttgtcaagag atggcaatta 240
 tttgttgagg aaagctcgtt gccacattct agtcattctt ttcttagtgg tttcactgct 300
 catctgggtt ctgtaatttt tcaattgaag gccaaatgag caaagtagta attggagata 360
 gaaatatgtt actactgtcc tatctatcga tctccaataa attagcgttg caatgtanaa 420
 t 421

<210> 29369
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-D2

<400> 29369

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gaggcgccgg aggagacctc gagggcggtc ggccgtaccc ggaaaacggc agcggcaggg 180
gccgtccgcc gtggtactac acgggcttcc accgcggcag gcagcaagag caagaacagc 240
gggacttcgg gatgagcgac acg 263

<210> 29370

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D3

<400> 29370

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ctctcaaggc taataggtca gctatcgaag gttcagtcac tgaggttctt accgccctcg 180
caaacataaa agctgctaag tgaatctcca atggaactag accgacaata aatcggaagc 240
agctgtcttg ttgatcgagg agcgcggaat ctgcaaactg gcccttcggg gttttggatg 300
tgctgcgga acgtgttatg atgtgtatat taaaaacgta gcatgtgctg catgaacttc 360
tgtaggatgt ctaactactg aagtgcaa atcagccttaa ctagtctac 409

<210> 29371

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D4

<400> 29371

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gtggg 65

<210> 29372

<211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D5

 <400> 29372

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 caacctcttc ctgatgacga tgatgatctg attgagtaga aaggatcatg agtcttgaac 120
 ttgagcatga gttgcgcctt gcatgttata agttgttcta gggatgaactc tctagttctc 180
 attggctgga tcatctgcat ctcttggat gtgtacgcat gatatgagtg tggaaatgga 240
 tgggtacttct agacatgaat tcgctggcta ctttatacat tgggtgtgtca ctctgtttga 300
 tgataaactt tgttgaggca atcctcttag tgctgatata 340

<210> 29373
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D7

 <400> 29373

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 tcggcgcacc cgagctcgcc ctctccttcc tcatcgaggc ccgagtcctg ctctgatggc 120
 gaccgacgtg gctgagactc ccgcgccgtt ggtggatgcg gcccctgagg cggccgcgga 180
 caccgccggc gcgcctgctg ttgacgcgaa gccggccaag gccagaagg ccacagcgcc 240
 gaagaagcgc gccagcccga cccatccgcc gtacgccgag atgggtctcg aagcgatcgc 300
 gtcgctcaag gagaggacgg gggccagcag ctttctatt gccaaattct tggaggggcaa 360
 gcacaaggac aagcttcc 378

<210> 29374
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-D8

 <400> 29374

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ggcacttttg caaggctcct ggagtgccgc acagccacac caagccgtat gtgcgctcca 120
aggggaaggaa gttcgagaag gtcctgtggca agaggaacag cctgtggattc aaggtttaaa 180
acaaattgtg gccctccgtg ttgccatcag catagtgcga ccgttgtgtt tgatcaatcg 240
acagtaatta gtcatcactc tgtaccgaga ttagtagcac aatttgttgt cctggtttga 300
atatttgaag atatttgatg tcgtctcctt attatctact cgttactggg tgagcacgaa 360
gattgttttg tgatactcct acatgattta agacggttcc cgacgttcca t 411

<210> 29375
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-005-Q1-K1-D9

<400> 29375
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gctcctgtca tgggtcctga tatcacatgc caacagttgc tccctgtcgt cattgcttct 120
tcaaaggaca gggttccgaa catgaaattc aatgtcgcta aagtccctgca atcacttgta 180
ccaatccttg atcaatctgt tgtggagaag acagtgaac catgcttagt tgagctcagt 240
gaggacccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300
atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360
attctttttg aacattttaa agtgttatgt agtcttaaaa atattgtacc accaatgacg 420
ttgatgcac tttntattaa ttatgtg 447

<210> 29376
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-E10

<400> 29376
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gatccatcca ggcacgagt cctcactgtt cggaactcg gagtgcggga cactgccggt 120

ggtgagcgtg gccggccac tctacgagct gttcgtggca atggcaagct cgatctggac 180
 actccacagg ttagcatggg catacgaccc cgcagtcggc atattccagg tcggccgggg 240
 cgcagagttc tcgacggtgt acatggagaa cattgtccgg tcgaagaagc gttttgcggg 300
 gagcaaggag ccccggaagc cgtgcgggc gaaggtcggg ttcacggtg tgccgggctt 360
 ccggctcgga gggacagtga tccagtgtac ggtgtatctg gatcacggga agagggaaga 420
 agacattaca gattcggg 438

<210> 29377
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C12

<400> 29377
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 ataggctcgta gggccctcgc cgtcgtctatt ttcttctcgt ttgtgtcttg ctgctctcgt 120
 ggtgaactcg ctactccagt gctctgcaat attaagcaga agctattgta ttgtttgggt 180
 cgtttgtcag ctaaattgaa atgcgatgga catttactag t 221

<210> 29378
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E11

<400> 29378
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 tcaaccagca tggactgtgg atcgatggat gctgttactc ctgtcaggat ttgttctaag 120
 ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 157

<210> 29379
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-E2

<400> 29379

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gtgcactgag atgtggcttg acggccagaa ggtgcactac caaacgaagg ccaaggagcg 120
gaatcgcgct gtctctcttg gatatgtgtt gctccagcac atccccctcg cattgtaagt 180
aaaagttttg gttcttaaaa ttgggtgccc ctgaaagcat ttggcttggc tgggataaat 240
tgagcacgaa gtgggctgcc actgtaatga tagccatgta tgggtctgca cataacacat 300
tcgtaccgga ttgattagaa gcacgtacca cttaaaaaaa aacaatattg tttttaataa 360
aaattatata ttttaataca ctacaatatt ttataaa 397

<210> 29380

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A11

<400> 29380

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gcgcggggaga tcttttaacc tcaggtagct taatataatg aatagagggtg cagacttcct 120
cgatttacag atatagagta agcaagcagc agaatcttta ctctgaatgc gaggtgcaat 180
cttactatga actatggttt tgccatccat ttgataagct cgttgatgac actcgatcat 240
tactcgatga tattttggct tctccttatg gcgcttcac tggttgatgc tattctctta 300
ttgaactcgc gtgctcttat 320

<210> 29381

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-A2

<400> 29381

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caacctcaac ttctctcaat gcttcttatg agcaaagtgc tgataacgtg ttgtaaatca 120

gtggtaacgg gacacgaaaa tgtagagaga aagtgcagct tgtattgatc tcatgaaatg 180
 tgtacatata tatacatagt gaagagacac cacgaaaggt cgcaaaaaaa aaaaaattcn 240
 atattactt 249

<210> 29382
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-A3
 <400> 29382

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 tcggcgcccc agctgggtggc tctcgggcta gcgctcctct gcgctgtcgc cggcccggcc 120
 gccgcgcaga actgcggctg ccagccaaac gtctgctgca gcaagttcgg ctactgcggc 180
 acgaccgacg agtactgtgg cgacgggtgc cagtcggggc cgtgccgctc gggcggcggc 240
 ggcggcggca gtgggtggccg tgggtcgaac gtggctagcg tcgtcaccag ctcttcttct 300
 aacggcatca agaaccaggc cgggagcggg tgcgagggca agaacttcta caccgggagc 360
 gcgttcctga gcgccgtcaa ggcgtaccca ggct 394

<210> 29383
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-A4
 <400> 29383

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 tcgaggaagc ccagacaacc catgagagac ccaaaggtag catgatgggtg tgagaatggg 120
 ttcttttggg ctaatgctca actctgtcgt ccttggattc acctctgttg tgctagaaaa 180
 gttatgtatg aagtggggag ctggacttgt atgggggtgc ttcaatattc taatgacttt 240
 gtgcttcttg gcaatgcttg tgataacata tgttgcaaag 280

<210> 29384
 <211> 370

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A6

 <400> 29384

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 atgatgagat catggctagg ggaacctttg ccaacattcg tcttgtgaat aagttcttga 120
 aggggtgaggt tggaccaag acaatccatg ttccatctgg ggagaagctt gcagtttttg 180
 atgctgctat gaaatccaag aatgaagggc atgacactat taccctggct ggtgccaagt 240
 acggaagtgg aagctctcgg gattgggctg caaagggccc aatgctgcag ggagtgaagg 300
 ctgtgatagc aaaaagcttt gagaggattc accgaagcaa tcttgctggc atgggaataa 360
 tccctctatg 370

<210> 29385
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A7

 <400> 29385

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 tgcggcggct gcaagatgtt ccctgacgtg gagaccgcgc gcgtcggcgg cgtgaagccc 180
 acggtcctcg ccgccccgc caccaaggcg agcgccggcg ggttcgaggc ggccgccgag 240
 ggcggcggct gcgactgcaa cacctgcaac tgcggcacca gctgcggctg ctctgctgc 300
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 gactacaact a 371

<210> 29386
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A9

 <400> 29386

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 agacttcctt gatttacaga aatcttataa gcaagcatca ggatcttttt ctgaatggag 180
 gggcaagctt actatgaact ttggttttgc cattgatttg ataagcttgt tgatgtcact 240
 tggtcattac tcgatgatat tttggcttcg tggatatggcg ttttatctgg ttgatgcaat 300
 tctcttattg aactcgcgtg ctcttatagt ttcttttttg aagaggatta aagcttacat 360
 caagttacgg aaggcactta gttcactcga tggagcactt acagatgcta cgtatgatga 420
 aatatgtgca tatgatg 437

<210> 29387
 <211> 195
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B1
 <400> 29387

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 gggccttaac cagaaggacc cgttccaag gttcaagggt taaaaagtcg ttcaagaaaa 120
 aaagggtctt gagggtcatt tttaaaaagg aatgcaacac aaccgaaga acaactttcc 180
 tgggttaaact tatta 195

<210> 29388
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B10
 <400> 29388

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 gaacttcgac ccgaagaacc cgtatgccga cccggtggcg atgctcgagt accgggaaca 120
 cctggtgcga gagaagtgga tccagatcga gaccgccaag atcatccggg agcgctacg 180
 ctggtgctac cgcacgcagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240
 atacctagag gctacccgcg gcgtgggttg gggcaaggat gcccgccgcg ctgaactcca 300

cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgccttgctt ctctgtgctgc 360
 tgttcctgga ttggagaggt gatctgacct ttccattgag tttgaatgaa gtttccttga 420
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 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B11
 <400> 29389

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 gaacggtctc catcaagtca gccggtggaa ccattctcaa actttggtgc cccttttgac 120
 aggtaggtct actttagaga cgagacatat ctcaccaagt tcacgtgtga tcagcttaat 180
 cattaccgat cagattcagt ctacctatga tcttatatac tactggataa taccctacat 240
 tgggtgtgtac ctttacacgt ttatttctac tattgttttg ctgtctgtct gattgcttat 300
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<210> 29390
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-005-Q1-K1-B2
 <400> 29390

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 gcttgatat gacgatcagc ttgaaaggct caaggaaaaa gagcaaaagg acgctaagaa 180
 gcgccagcgc ttgggtgaaa atttttcaga tcttttgtat tccatcaaag aaatatcagc 240
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 ggacagtgag acttatgcta gaaagctttt tgaaaaatgc cgtgtccacc ttaaagaaaa 360
 ggtaaaagag aaagaacctt tgaaggaaga aaaaaaagca aaaagagaga 410

<210> 29391
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B3

 <400> 29391

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 tacagccaga cttcactagg aactgtgtcg ctgtttatgt tggcagttgg ttctag 176

<210> 29392
 <211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B4

 <400> 29392

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 gttgaagatg acgcacgagg agcagctctg cttttggatc aatatccaca atgctctggg 120
 catgcatgct tttctggcct atggctctgca cgacaagcgc atgaagagca cggacatgat 180
 tc 182

<210> 29393
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-B5

 <400> 29393

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 cgggtccata tcaaaccaac cctgcatgca gggcatctta ttatatataa tatctgaggt 180
 ggagcatatc tatctggctg tgtactgcaa gcaggcctag tacgccgtct gcgcgttcct 240
 cctattacac atataggccc ctccctgcgt gtatgcttgt taccgtcgtg ttcaaccttg 300
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aa

362

<210> 29394
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B6

<400> 29394

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gaggtgtacc cgctgttcgc ggcaacgggc gtggccgctcg gcatctgcgg atttcagctc 180
ttccggaaca tcaccggcaa cccggaagtc agggtaaaca aggcaggagagg ggcagctggt 240
gtgcttgaga accatgagga ggggagacgt tacgccatgc atggcctaag aagctttgtg 300
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<210> 29395
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B9

<400> 29395

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cgtccacgca cgcgtacgca cccttaatgg tcacctaac taggtgggtca agctcaaggg 120
cctggacatc aacaccatac agcacaacta cacagagtga gagccccctc gctgcaatgt 180
ctaccacaac acctttgctg cccgacggga gccatctgat tacagataaa aattttacta 240
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tctagggagt ttcttttctc tctctcttta ttcttattgt tatgtttttc aatagtgagg 360
tgtgcgcgtg ttgtaatcgt ttttacctgc gtttttctct aactagccgg tgacctttcg 420
ggaagcgagg tgaataaata atgcatctaa aattctttgc c 461

<210> 29396
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C10

<400> 29396

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ttctgcctca tcattctgggg cgccgcccgg ccgtacgagc ccgaggtcat cgtcaagagc 180
ttggtgatgg acgacttcta cgcggtgaa ggcacggacc acagcggcgt tccaacaaaa 240
ttggtcacia caaactgttc tctgcacata gctgtctaca accctgccac aatgtttgga 300
attcatgtca cttctggccc catccacctg atgtattcag agatcccaat agcagtcggt 360
cagagcttgg tgatggacga cttctacgcg ggtgaaggca cggaccacag cggcgttcca 420
acaaaattgg tcacaacaaa ct 442
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<210> 29397
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C11

<400> 29397

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cagcagcagt tcaccttccc ctagacgcgg caggtagaaa gaaccctggg cattgtgtat 120
gcggcaggta aagcctttta tcccttgact ctatctgtat cgtttgcctg tgcttgtgac 180
ttgctgtgag ttcaagtatt ggttcgagga gaagatgaga gaacgctaca gcaatgctcc 240
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gaattatctg ctgtgttggc ttgtgtactt tgattgtacc ccaagtattt tgaagtctctg 360
aacttatttc tgctaaaaaa aaaataataa aaaatataaa aatattatct aataatttt 419
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<210> 29398
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G2

<400> 29398

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tgcatgaacc cactaaccat tggcgggtcaa atgagttctt ttaaatagct tcagattttc 180
ttgttatgta ccaaaccggg ctgccactag tgcaatgatc tcagaaacat agaggacatc 240
ttatgaaact atagaagccc atggctgttg tccccaccgt gc 282

<210> 29399

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G3

<400> 29399

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cccacgcgtc cgaggaaggg gtccaataaa aaaaaaatc gccgccgtcg cccagcggac 120
cttctcctcc tcttccccgc acgccccgcc gctggctgcg tcgggctaca cccgcgccc 180
cgagtacggc ctggtgcccc tggatgatga gcataccttc cgcggggagc ggcctacga 240
catcttctcg cgcttgctca aggagcgcg cgtatgcac catggcccca tctactgacga 300
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<210> 29400

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G4

<400> 29400

cccacgcgtc cggcaaagac gaacgaagta tacaaggttg atgagagggg catacgctgg 60
ttctacactg gtgatattgg tcagttccat cctgatgggt gccttgagat tattgacagg 120
aaaaaagata tagtaaagct tcagcatgga gaatatgtgt ctcttggtgaa ggttgaatcg 180
gctctagcaa caagcaacta tgtggagaac atcatggatt atgccgatcc atttcataac 240

tactgtgttg ccctggttgt tccagcgcac caggccttgg agaagtgggc tcagaattcc 300
 ggataaacta tgaatgcttt gcatagcttt gccaaaacta cctaacaatt tatga 355

<210> 29401
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G5

<400> 29401

cccacgcgct agatcgcgag cagccgtttt tactgttatt ttttgaagta catcggggga 60
 ttcattgata gctaaggatt acgagtaatt catgtcatgt cattagggca taaaattacc 120
 acaacagtca ctcagagcac acacattgag tgggtccaaat atttccagct atggaaactt 180
 gcagagtaac tgatactact acagcaaata gcagcaagtt aagctagatt gttaggaaag 240
 agcacctgca cctggctgtc ttcattagtgt gatatactag acctgggtact gaacatgtta 300
 gccattaccg ttataagggtc catgggcagg ttgcatttat gtaag 345

<210> 29402
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G6

<400> 29402

cccacgcgtc cgcggacgcg tgggaaaaaa caaaaaaata aaaaaaaaaa taaaaaagg 60
 aaaatatggc acccgggtgta aataactcct gcattactct ctcttacatg ctctttcttt 120
 tcaccttttc ttatgtacct taccttcatt ttctatcctt atccttacia caacgtgacc 180
 gttatacaac tcaactgtcct atttttactt tcttctctat ctcatcatcc ctttgccata 240
 tctttctttt atcctcttgt cctttttcat tttttctttt cctttttttt ctattaaatc 300
 ccccatattgt tcctcctttt ttactttttt tattatcttt atttctctct tttttttccc 360
 ttcttatttg cttttaattt ttttcttctt ctttatttct ttttttcttt tttttttttt 420

<210> 29403
 <211> 266

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G9

<400> 29403

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 aagaacgcgt ctcatTTgac aagtGacagc ccatctgttt tctgccacca cccgcttcga 120
 ctaagttatg ttcaaactga tagatcccgt cgctgagctc gagctagctc atgactctta 180
 tcatcctgct caatgtgact gaatgccact tccatcagtG caagcagact ggtgcatcta 240
 tacatgcgct tcattcttgtt taacgg 266

<210> 29404
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H1

<400> 29404

aaggcctcag cactgcacat tacgtgctgc gatggaggaa ttttttgaga atttgtttta 60
 tttcttgctg tgtccaaaat ccacaaatct gtcaataatg ataggcaggt tcgactgacg 120
 tggctgactt ggttggccac cggatgtttt cttacaacga gtcatgaacc ataccgtccc 180
 atcttttggtt ggaagatttt actttggcaa ataattttgt ggcacgttat atgtaaagat 240
 ggtacagttt tagcttcatt gtccac 266

<210> 29405
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H10

<400> 29405

cccacgcgtc cggcgTccca cgTtgCcttg gttccccac cctgctgtct cctccctcc 60
 ttgcgtcctt ccccgccact ggcagcgcg agtgcggcga cagccagtca cacactcaca 120
 ctactcgac cgctctcagc cccgttcgcy tcgccgcatg gcgaggaggc aatggcgcy 180
 ggcggaatg gcaccgacgg tgacaccagc gcggccttcg cgcggatcta caagacgctg 240

aaggaggagc tgctcaccga cccggacttc gagttcaccg aggagacacg cgcctggatc 300
gaccgcatgg tggactacta tgtactcgga ggcaagtaga accgtctgct ctctgtggac 360
gacagctaca agctgctcaa gggcgcttat gctcattgca aggaggaaac 410

<210> 29406

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H11

<400> 29406

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gcacttgtat cagctatgga cccgagcaga gccggatgca aggagcagct ggctgcaagg 120
ggccggcaat cgctcgaagc tacgacagac gcgtcctcgc cggcaaggcc ggctcgccta 180
ggagggccgt gcacgcctat gcgtaccaca agaacctgga ggaccagctg cgcccgccgt 240
tcgtgccgga cgatgtgatc ggagcgccc ggagcccaga caagtactgg agccccacc 300
ccaagaccgg cgtgttcggc ccggcgccgg tggaccccaa gctggccgct ggtggcgcgc 360
ctgacgccgg cgcggtatgct gcaagaggca cgggtgctgga ccagaaagtg tggttccgcc 420
cgctcgagga cgtcgagaaa gccgcccc 448

<210> 29407

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H12

<400> 29407

accttatcac acttaagcca ctcacatata aaattttctaa cattatccta ctcattacac 60
acatatgcc aatatgaaca aacgatccat tatccagcaa aaaaaaaaaa aaacaataaa 120
aaaaaaaaa ttaaatatth taaaaaata ctgttatata tatacaatac attaaattat 180
tttaattccc tttacttgac ccatatggta ccattttaaa ttatcttact atgcacataa 240
aatctcttat ttcactgttc acctatatta tccacatgct t 281

<210> 29408
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H3

 <400> 29408

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 tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
 tcctcttctt cgccttcgcc gactcatgcg gctgcaggtg cggcggatcc tgccctagtc 180
 caggcggcgg tggcgggtgg ggtggaggat ctggtggtgg tgggtggtgga agctgttggg 240
 gtgggagttg tggggggttg tcggg 265

<210> 29409
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H4

 <400> 29409

 gatacgcggc ctgagaggtc tagtgccat ccaagcagac cagattgacg cagtcaggtt 60
 cctgccaaaca cgaagtgact gcaatatctt ccacgctaga gggattctgt gacagactct 120
 atatgatact ttaagatgta gactgagcaa gttgccgaac atatgaacgc acattatgtc 180
 tgattcaaga acgatgagag agtcctcgaa tcggatctct tcaccgaatc cattatccag 240
 accactgaat tt 252

<210> 29410
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-H5

 <400> 29410

 gacaaagtga accgaccacc agcgaccttc gtgaaggttt acaaactctgg aacctacggg 60
 aggtcgcttg atatcactag gtttagcagc tatcagcagc tccgtaggga actggggcgc 120
 ctatttgccc ttgagggcca gttggaagac ccattgagat caggctggca gcttgatttc 180

gtcgaccgtg aggaggacgt tcttctcgtg ggcgacgacc cttggcagta agcactgcat 240
gcgacgttga ttcttttttt tttctgcatt cttcctcaca ttgcgttggc aaccaaccc 300
cacaggggaat tcgtgagcac ggtgttctgc ataaagatcc ttctcccgca tgatgtgcat 360
cagatgggga agcatggcct gg 382

<210> 29411
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-004-Q1-K1-H9
<400> 29411

acggccacgc gtgcgcccac gcgtccgccc acgctttcgt ccacgcgtgc gccacgcgt 60
ccggggagat caacgtcgtc gttggggcca gccatcggta gagccggtag tagagactac 120
gaccgaggct agctaagcta agagatggcg gatcaccagt actcggcgtg gacgacttcc 180
gctgctcgtc atcgggtcctt cttctgtgcg ctcatggctc ttgttagttt tgtggctgca 240
ggacgaccca ttgtgctcgc cgacgccatc gtctttcacg tggcgaacag gtgcccgttc 300
ccggtgtggc cggcgtccgt ccttaacacc ggccaccag tgcttgccgg cggcggcttt 360
tacgtcccgc aaggcaagtt gaggcgcgtc gtcgcgcctg gcaacttgaa cgggcgcttt 420
tgggctcgta 430

<210> 29412
<211> 175
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-005-Q1-K1-A1
<400> 29412

gaggagtttt gcaacataat gcgcaagatc tacatttacc ccaaggggga ggtccagaag 60
atgaacttga aatcattcgt gccaggaag gaggaacccc aagcagcagg cgaaagctga 120
gccgtcgacg gcgcaaacca gtaggatgtc tgctgcact ggaacaagca atttt 175

<210> 29413
<211> 385

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-G12

 <400> 29413

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 caggacggat ctgaccagtt ctatcgccct agtggatact actctgcacc tgcacctaca 120
 ccacatccgt atgagtacac cggagggccc tctgcaccgg tggactacaa caggcaatat 180
 gagcagagag ggagggctgg agccgcttgt agtggcacag gtaacggaat gtatagagca 240
 ggcaactgcgc tagcgggaga tgctgaggct gaagcccttg gagacctagc agatgtacat 300
 gcttaagggtg ctgaagcagg tgcacgtgca catcggcatc tcgtacaagg ccatgtccat 360
 catgaactac tttatcagcg agatt 385

<210> 29414
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-005-Q1-K1-A10

 <400> 29414

 cacagtcctc taagcagatc cccttggtgc tcagcatcga tgaacaagac aaagcattat 60
 caaaggcaat tgaaagtggc gataccgatc ttgtgtacct tgtgctattc catatttggc 120
 agaaggtagc tgtagagaag aaagctcctt tggatTTTTT tgggtgttata aatgcaaggc 180
 ctgtggctag agatttgttt atggcatatg caagacattc taagcatgaa gaattgaagg 240
 acttctTTTT atcgactggg agacttcaag atgccgcctt tcttttgttg aaggaaatcat 300
 gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360
 ggctcattga gcaggcccat agactTTTTT ctgaaaccaa ggaacatggt tttgagtcca 420
 aagcttctga agagcatgcc aaat 444

<210> 29415
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E1

<400> 29415

tcgtcagatt ggagaggag acgaggtggg tgtcctaggg gagagacca gttagctgca 60
ggggtaggtc gtgttcggcg tccgtcttcg gagagttcca agagattggg ggtgcggctg 120
tgggttccaa gtggatccac cacatccagc gcctcatttt gttcaatgtg tttgtt 176

<210> 29416

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E10

<400> 29416

tcggccacac gttcgagcgc attcctactc gcttttaaac atcaacaggc cgtacacacg 60
agcggtcaca tgcattgcatt gaggcgatca ctgtcttgct aactatgata tatttgacg 120
gaagcatcac cacatatatg atgccactct acgttagtgc tctcgctatg gctaaaagga 180
tggtgcacta ctgtacatag tgcaatctct taca 214

<210> 29417

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E11

<400> 29417

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tgccgcgacc attatggact gtggatcgat ggatgctggt actcctgtca ggatttgctc 120
taagttaatc ctaaggaaaa aatgggtgctt cttgggtgctg c 161

<210> 29418

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E12

<400> 29418

gatgaatgct agcccggact gtgacttcgc ccgattctgc gaccgcaagt acagacagct 60

gatccatcca ggcttggagt cctaactgat cgggacctcg gattgcggaa cactgccggt 120
 ggtgagcgtg gccggccaac tctacgagct gttcgtggca atggcaagct cgatctggac 180
 actccacagg ttagcatggg catactaccc cgcagtcggc atattccagg tcggccggtg 240
 cgcatagttc tcgacggtgt acatggagaa cattgtccgg tcgaagaagc gttttgctga 300
 gagcaaggag ccccgga 318

<210> 29419
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E3

<400> 29419

gtcgggaagaa caggaagcgg catatcattt ctcatacagg ccctctttcg tategtgggg 60
 gcgactatcg tccagagact aatatacggc gtctacttct gcaccatcgg tctgtatgat 120
 ctgtgatctt a 131

<210> 29420
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E4

<400> 29420

gaatcacaca acagcagctc aaaaaacctt tcacacctca acaagcagag catagacccg 60
 ggattcgtcg gcgcggtagc gagagctaga gatggacggt tggatgttct gtttctagac 120
 ctctctgttt gtggcgctgt atctccttct ggacgtgctc ttctgctact cctgctctgt 180
 ctgttttctt tcttttgttt gttttttttt ttgttgtctt ttattttctt tatatttatt 240
 ttactttttt attttattat tttttttttt tatatttttt ttttttttta tttttttttt 300
 tttttttttt tttttttttt ttattttttt acttttttta attttagttt tattttttct 360
 tttttttatt tctttttttt ttgtttttct tttttttttc tttttttttt ttttttttat 420
 tttt 424

<210> 29421
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E5

 <400> 29421

 cccacgcgtc cggggacgcg ttccacctca cggagagggc aaaccgcatc atcgtcgccc 60
 agttcatgca cggcgacacc gactacatgc accccatgaa cctcagcacc atcctcgcca 120
 tggaccagga gggcctctag actatagctc gatcagccgg acacgattat acgtacatgc 180
 gtgatgtgtc tcacgtgcct agcacgttag tcatgtgttg gatgatggca gccaatttg 240
 ccaataatat tcgtgcctcg atcctagttt ca 272

<210> 29422
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-E8

 <400> 29422

 tcgagcaaac aatagcgagc gagagagcct tttagcctag agactagcca gc 52

<210> 29423
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F1

 <400> 29423

 tactcggttc cggatacccg gctggactcc acgcgtccgc ggacgcgtgc gtttacgcgt 60
 tcgtgggttc gtgataattg ccaggcaggc aggtcgtgca ggagggcaag aagaccgaag 120
 accgatccgt gcgggggctc gggactggaa ctgtacatga ccccaaat 169

<210> 29424
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-F10

<400> 29424

gcgcacgcgt acgccacgcg ttcgaagaag gcacttcatg tgacatttaa aaagcctagt 60
gggagtgtta gcttatctgg gcacggggtt 90

<210> 29425

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F12

<400> 29425

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tgttgagtaa cttcttccga tccagattat ggcttcaaag cagcagcaga aacagtctct 120
ggatgaagcc atgatcaagc agccgacacc ggaggaggac cgtgagggcg catggccctc 180
agtgctgacg atcatcggtt ttggattcct aaccttcaac tcattcatgg ctgtgtacag 240
gtcaaagtga gatgttggat ctatcttctt tgtggtcttc tcttacctgg tccttgttct 300
gctgttctac 310

<210> 29426

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F2

<400> 29426

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cccggagcag gccgcgggca ctggaggtgg gaggcggtgg ctggggtcag ggggttgtgg 120
ctctgcgcgc ccttctctct cgcctactag catgctcgcc ttctcatctc catccagcga 180
gaaggatggt ttattatatg catacttcct agctttgtga ttctgtgtct tttctttttt 240
gtttgtctat cttttttttc ttattcttgt tgcttttctg tgttttcttt tttttttgtt 300
tgtttttttt ctttgtctta tttatttttt ttttttatct ttttttttg tttttttct 360
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ttcttttttt ttttttatct tttt 444

<210> 29427
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F3

<400> 29427

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gcaaagagcg gctcagccgc accggtgcgg tgccagcgga tcggctgcga cgccgtattc 120
accgacgatg acaaccgcga gggctcctgc caataccacc ctttcgcacc tatgtttcat 180
gactgcatga aagaatggag ctgctgcaag caaagaagcc atgatttcag cttatttttg 240
cagatacctg gatgcacaac atgaaagcat acaaccgaaa aaccaatcac aaaagctgta 300
tcattctaacc gtacaaaggc aaca 324

<210> 29428
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F4

<400> 29428

cggacgcgtg ggtgagtgc caagaatgtc tccagcgaaa aaagacatat tagtaaatag 60
gaataataat aaaaaaaga ggaataaa 88

<210> 29429
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-004-Q1-K1-F5

<400> 29429

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agtcaaccca gcttaagtgt gcagcaccca gaagaaaaca agcagggttg tccagctgag 120
ctatgcccaa tctgaagag gctttacaga atactgataa aaaggagct cccagcaagg 180

gacattcttc aagccctgag ggacgaaacg atgaatgac ctcgggaaag gattgagatg 240
gcacaaagcc atgcattcta cctgccgtct ttccttgga aaccatgac taantagtct 300
tntagattat tagaatatta acggacgctg tgcttcatgt tttttcactg tgct 354

<210> 29430
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-004-Q1-K1-F6
<400> 29430

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tgttgctaag ctcagcgggt ctgcagccaa gcatggaatg atatatgtga catctgtaaa 120
gatgatcata gacaagggct ttgactacac ttataagggt actgataggc ttcaccttat 180
gcttgagatg tctattatct ctttttaagc tctttaatct attttttata atattttttt 240
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ttgttttttt attctttttt attattttat tttttttttt tatatatatt tttatttttt 360
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<210> 29431
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-004-Q1-K1-F7
<400> 29431

caggatcca ataattctct atgggagtc agtcttatat gttactttat tgatagagat 60
gtcttgtttt tgaattctcat gataaagctt accttggttt gatggtttca gttagcataa 120
ctctctgatt ccatcgactt gctttaagga aaaaagaatt gcatgcatgt ttcagcagta 180
ccaactatac taagttacta acttatgtgg atatgaacct tctatgcatt tgtttttgta 240
gaatttgtaa gaaatatccg ttttgctggt atttactttt gcttattatt gtatgaagtt 300
tgaatggatg tgaggccctg taatattctt 330

<210> 29432
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D9

<400> 29432

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gctcctgtca tgggtcctga tatcacatgc caacagttgc tccctgtcgt cattgcttct 120
tcaaaggaca gggttccgaa catgaaattc aatgtcgtca aagtcctgca atcacttgta 180
ccaatccttg atcaatctgt tgtggagaag acagtgaac catgcttagt tgagctcagt 240
gaggaccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300
atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360
attctttttg aacattttta agtgttatgt agtcttaaaa ataatgtacc accaatgacg 420
ttgatgcac ttttt 435

<210> 29433
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F8

<400> 29433

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tgcgagaagg cgacgtcgta ccagttcgcg gtgctcttcg tggccttcgc gttcctggtg 120
ctgggctcgg cggggatccg cccctgcagc atgcccttcg gcgccgacct gttcgacccc 180
aacacggagt ctggcatgcg cggcatcaac agcttcttca actggtacta ctttaccttc 240
acggccgtca tgattgatct 260

<210> 29434
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F9

<400> 29434

attcgtccac gccacgcgtt cgctcagtcg gcagtgcgtg gttcattctc ggctccagca 60
taccatgca ggaaccatca tggactgtgg atcgatggat gctgttactc ctgtcaggat 120
ttgttctaag ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 167

<210> 29435

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G1

<400> 29435

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gagcacctat ttccaccttt gatggccaag aatctcattg tagctctgct gtaccatgta 180
taagctgtta ttaactagtg gaaagcagca cgaaaaaat tctgaaggga gtgtgaatct 240
tggtgggtca tctgtgtacc tgtgttcctg ataaatgctc tcgattaagc atgttgatct 300
ttaaaaatatt tttgattttc atatatttta ttttaattctt tttttatctt tatctagttt 360
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<210> 29436

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G10

<400> 29436

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gtgctggctc cacacaagca accatactac aaagacattc aaatgctcag ggtaccttgg 180
gctcatggag gtctgaatgt atcatccaaa agattgatga tacttgctca tggcttcgaa 240
ggctactaag aaggcctgaa attgatgaca ctgaagcatg ccttaacatg gagctaattg 300
agtcaacagc cacagaaaaa tatgttttgc cttctccttc aaaaccttct tcaagttcag 360

tagtggagga catcaat ttt gtaacatcct tcacacttcc ataaacagta atattatctt 420
tatttggtga gaactgcttt gcactggt 448

<210> 29437
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G11

<400> 29437

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aagacttgct agctcggatt gcagatggcg gatcagaagt actgagaact gacgacttta 180
cgtgctcata atctggctctt atactgagcg ctcatggatc ttggtagctg tgtggctgct 240
tgacgacca ttgtgctcga cgacgccatc gtatttcacg tggcgaacat gtgc 294

<210> 29438
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B5

<400> 29438

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cgacaagctt tctgatgact actggtgctg gcacgttcac ttctacagcg acgattatta 120
catatgtatt gtagtggtag tctgttttct gacgacgctt tggttttgaa ttgtttcatt 180
tttgtaat tttatttttt ttactagatt gggtgttggt atttgttatt tttttttttt 240
ttttatattt tttttttttt attatatattt tcttttttgt tggattattt tttttttttt 300
ttttttattt ttatttatct tatatttttt ttttttgttt attatctatt ttt 353

<210> 29439
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B6

<400> 29439

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gtgaatgtcg tagcgtttagc aatttttttt taaaaaaaag ttccattgaa tgactaattc 120

ttctcctggt gcatgctaca gtaatgccct ggagaaacga tcaaaagata tcgcaaacag 180

gatgttactt gaagaggggtg tactgcggcg ttccacacgt gtccgggctc atccaaagga 240

catggcattc ctcaagtacg tcaacaagtg gaaggataac tgatg 285

<210> 29440

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B7

<400> 29440

aaaaaaaaaa aaatatcaaa aaaaatttaa aaaaaaaaaa ataacaaca aa 52

<210> 29441

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B9

<400> 29441

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taacttcgac ccgaagaacc cgtatgccga cccggtggcg atgctcgagt accgggaaca 120

cctggtgcga gagaagtgga tccagatcga gaccgccaaag atcatccggg agcgctccg 180

ctggtgctac cgcacgagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240

atacctagag gctaccgcg gcgtgggttg gggcaaggat gcccgccgc ctgaactcca 300

cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgcttgctt ctctgtctgc 360

tgttcctgga ttggagaggt gatctgacct ttccattgag ttgaatgaag tagcctggaa 420

ct 422

<210> 29442

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C1

<400> 29442

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gggaatccct tagcatgggg acaatttgaa tattcaatcg ctttggtggg actctgctgg 120

tgaatatctg tcttttgtca gagaagactc gttcagaata tggacattca gttctggacg 180

tgatggtgaa tttgtgcacg aattgaatcg cagtggaaat ctttttact catgtgtttt 240

acacccaact tatcaaacct tgtagcgat tgggtctttac gagttcttgg aacttttggg 300

cata 304

<210> 29443

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C10

<400> 29443

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cagcggggcgg ttccgtcgct gccagatggt actcggcttc ctcaccttcg tctcctttt 120

caccgtcttc tgtctcatta 140

<210> 29444

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C11

<400> 29444

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caaagggttga ggtcggatcg ggagataatg actctccaac tgatataccc gaagggttga 120

ggttcgggta tggcatccta tgtttca 147

<210> 29445

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C12

<400> 29445

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tggtaggtct tctgtcgttt gctgatcgtg agaactttta atac 104

<210> 29446

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C2

<400> 29446

gataagaatt gtggagctag attaaaggat acagttcttg actgggatga tgctttaccc 60

cctgaggaga tgaatttggc cacggagcat tgtcgatcag ctgatcttgt tctatgtcta 120

ggaactagat tactcctgca tgtaatatgc ctctgatgac aatcaagaag ggggggacat 180

agggaataat gttctggaga tgaagaaacg cttgcgttgg cttatctttt tttctttttt 240

atcttttttt ttattttatt tttatttttt tttatttttt cttttttttt atcttttttat 300

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<210> 29447

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C4

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atcgtgcggt ggctacgaca gatgaaaaat ataaaagcga cctgtggacg tccagcgcgt 120

tagctacaag aatgaataa tcatgcgcca cacgttatga ta 162

<210> 29448

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C5

<400> 29448

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atcaggatct tctggaaacg tggcatacta tatgggtcaa atggctatgg ccatgggaaa 120
acttgtcaca ctcgagaatt tccttcgcca ggctgacaat ctacgacagc agaccttaca 180
tcagatgcat cttatcctga ctatccgaca agctgctcgt gcgctttttg caatccatga 240
ctacttttca cgttttgtct ctctgagatc ttattggttt gctagtgttt ctttagttac 300
attattttta ttattgttct atttattttt ttttattttt tatttttttt tcttgtttta 360
ttatttttat tatttttttt ttttattatt ttttttttta tttttttcta ttttttatat 420
aatattctta ttattttatt tttttttt 448

<210> 29449

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C7

<400> 29449

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<210> 29450

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C8

<400> 29450

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tcttcgtctc cggttccata cgca 84

<210> 29451

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C9

<400> 29451

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gaatgttaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct ccaacttcaa 120

ggatgaccct gccaaaggagg ctgctagctt cacgtcccag gtcacatca tgaaccaccc 180

tgggcagatt ggcaacggct atgccccagt gctggactgc cacacctgc acattgctgt 240

caagtttgcg gagctcatta ccaagattga taggctgtct ggcaaagagc ttgataagga 300

gccccaaattc ctcaagaatg gtgatgctgg tatgggtgaag atggttccca ctaagcccat 360

ggtagtgga accttttctg aatatccttc tcttggctgc tttgctgt 408

<210> 29452

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D1

<400> 29452

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caccggctag aggaggacgt ggtgggaggg gaggcaggtt cgatggcggc ggccgtgggg 120

gcggctgctg ctgccgtggg tttggcgggtg gtagaggctg tagaggggac agg 173

<210> 29453

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D10

<400> 29453

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aggccgggat atttttggat gtcggggcc taaagtgtc gagagcatag ctccctaattt 120

ccttagtctt acgacattat atcatttatg ctttctaata ttcttacttg ttaaaacact 180

tttaatcaag aaacttatca tc 202

<210> 29454

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D11

<400> 29454

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gctcctgtca tgggtcctga tgtcacatgc caacagctgc tacctgtcgt cattgcttct 120

tcaaaggaca ggggtcccaa catgaaattc aatgtcgcta aagtcctgca atcacttgta 180

ccaatccttg atcaatctgc tgtggagaag acagtgcac catgcttagt tgagctcagt 240

gaggacccac atgtagatgt tagatactac gcacaccaag ccctttgggc gtgtgacca 300

atgggggatat ctaattgact agcctgtcca agaatta 337

<210> 29455

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B4

<400> 29455

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catcgtgggg ttccgcgacc tctgcctgca tgctgactac gctgggttcg tatectttat 120

tgcctttctt gattgttttc tttttttttt ctatttttat ttgttttctt cttttgtttt 180

ttttttatatt ttttattttt tttttttatt tttttctttt tttttttttt ttttttttat 240

tttattttatt tttttttttt tttttttttt ttttttttta tttttttttt tcttattttt 300

tttattctat ttttattttt ttctattctt ttgtttcttt tttttatttt ttttattatt 360

ttttattttt tttatttttt ttatttattt tttttttttt tattatttat tttttatatt 420

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<210> 29456

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D12

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 ttgccggaag catcaccaca tataatgttg ggctttgggt agtctcctcg ttttttttca 180
 aaggaggttg catagggtag atagtgtcat cttttctatt tcgttcctag atttgtcaag 240
 agatggcaat tatttgttgg agaaagctcg ttgccacatt ctagtcattc ttttcttagt 300
 ggtttcactg ctcatctagt ttctgtaatt ctttaaattg aaggccaatt gagcaaagta 360
 ttaatttga gattgaatta tgttactact gtccatctc tc 402

<210> 29457
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D3

<400> 29457

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 tgctgcgcgc gggagctagg cagctccttg ccccggggct ccggcggctc ggtctgggca 120
 ccggcgccgc cggtcagggt ggcccggccg ccggcggcgc tgtgatgagg gcgtaccacg 180
 agcgggtggt ggaccactac aacaaccgc ggaacgtctg ttccttcgac aaggaggacc 240
 ccaacgtcgg tactgggctg gtc 263

<210> 29458
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D5

<400> 29458

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 ctctcagtt gaaaagagct atgagctacc tgatggccaa gtaatcacca tcggtgcaga 120
 gagattcagg tgccccgagg tcctcttcca gccatccatg attggtatgg aggctgctgg 180
 aatccatgag acaacatata attcaatcat gaattgtgat gtggatatca ggatggacct 240
 ttact 245

<210> 29459
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D6

<400> 29459

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accttggttg cctgttctag gttcacctac cttttctcca tctcactcca a 111

<210> 29460
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D7

<400> 29460

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atatatttat ttatatTTTT tttatttatt ttttaattatt ttttttttat ttttttttat 180
tttttttttt tttttttatt ttatttttat taatttttta tttttttttt tttttttatt 240
ttattttttt ttttttttat ttatatatat tttttttata tttttttttt tttttttttt 300
tttt 304

<210> 29461
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D8

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caagtgagaa gcatttagct cttctatacc tagcaacaat tcagggtatt gcttatggta 120
ctcgtcatat tgtggagcat tgtaatgctc atggccacaa gatagacaca cttcttgctt 180
gtgggggact tgcaaagaat tctctgtata tccaagagca tgcagatatt acaggatgtc 240

ctataataact tcctagagag agcgagtcag tgcttttggg tgccgctgtt cttggcgccct 300
 gtgctggcaa gaagtttccg ggt 323

<210> 29462
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-003-Q1-K1-H11
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 gaaacgccac cgtaaggttc tccgcgacaa catccagggt atcacgaagc cggcaatccg 420
 gaggctggcg aggaggggcg gcgtga 446

<210> 29463
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-003-Q1-K1-H12
 <400> 29463

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 gctgtgctgc gtacagtacg tagtaccatg gcgaagaaag tggccactct gctggccctc 120
 aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgccct 180
 agtccaggcg gcggtggcgg tggcggtgga ggatctgggt gtggtgggtg tggaagcggg 240
 gggggtggga gtgngggggg tggatcgggt ggtgggagtg gtggcgagg atctggtgga 300
 ggcgntgtt gcggtggagg cgggtgatct ggtgggtggtg 340

<210> 29464
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H4

 <400> 29464

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<210> 29465
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H5

 <400> 29465

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 tgagcgatgc catgagc 77

<210> 29466
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H8

 <400> 29466

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 ctgttatcct gcgataacaa tacctagggg tagcagt 97

<210> 29467
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-H9

 <400> 29467

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 tgaagatgga gaagaggaag aggaggagga agagaaaggt gatggaaaca actggaaggg 180

ctctgtggat ccaaactctc tggaagctga agaaaagaac gggagctcgg agagtctgat 240
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gcaggcagct gatgcagtct cgaaaatgga ggcggcgtca cgcttccgcg tccagggtgct 360
cttcattctac acaccgaggc ggcctgtccc ttcagacgat ccagcacagg gggacacagt 420
ggagctgccg cagatccctg gctcg 445

<210> 29468

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A1

<400> 29468

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agacctacgg ctccagtgcc cttagtgtatt gacagtctcg cacatgtagt cacctatctt 180
gagccatctt aggtgtctac caaatgtgaa gccctgcttg gatgggtgtgt cttcaattat 240
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<210> 29469

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A10

<400> 29469

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gaaaggcaat tgaaagtggc gataccgatc ttgtgtacct tgtgctattc catatttggc 120
agaaggtagc tggtgagaag aaagctcctt tggatttttt tgggtgttata aatgcaaggc 180
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gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360
ggctcattga gcaagcccat atactttttg ctgaaaccaa agaacatgtt tt 412

<210> 29470
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-A11

 <400> 29470

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 acagaaatct tataagcaag cagcaggatc tttttctgaa tggaggggca agcttactag 180
 gaactttggg tttgccattg atttgataag cttgtttgat tcacttgggtc attactcgat 240
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 gcgtgctctt atagtttctt ttttgaagag gattaaagct cacatcaagt tacggaaggc 360
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 tgatgagtgt gccatctgc 439

<210> 29471
 <211> 78
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-A2

 <400> 29471

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 ggaaaaataa aagaaaaa 78

<210> 29472
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-004-Q1-K1-A4

 <400> 29472

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 cccgccgcgt ccggccgcgg caaccgcacc tgtgtcaatc tccatgacta cctcaaggcg 120

tcttgctgat aggaagatat cacgatttga gaagaatata acaaagaggg gcgctgttcc 180
 tgagacagcc aagaaggcaa acgattatcc tgttgggcct attcttcttg ggttctttgt 240
 ctctcggtgtt gttggatcat ctctctttca gatcatcaag acagcatcaa acgctgggtct 300
 attctgagga gaatcggttg acacatgcaa tctgtcacta gaaactattc aagtgtaggg 360
 cgtggctcaa tgtcgcctat ttaatgttgt accgtgggtga gttttaggta tatatttaat 420
 ggaagtgcctt at 432

<210> 29473
 <211> 80
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A6

<400> 29473
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 gaaaataaaa ataaaggggg 80

<210> 29474
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A7

<400> 29474
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 cgtggagctg tggatcgcg accgcgccgt gctccccgtg gagaactcgc tgggcggcag 180
 catccaccgc aactacgacc tgctgctccg gcaccggctc cacatcgtct gtgaggtgca 240
 gcttccccgtg caccactgcc tgctggcgct gcccggtgtg cgcaaggagt gcctgacccg 300
 cgtgatcagc caccgcgagg cgcttgcgca gtgcgagcac acgc 344

<210> 29475
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-H10

<400> 29475

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cgccgaccga caggaccgat tcgtgaggcg attcgccgac tcgctcggac acccaaaggt 120
cagccaggag ctcaggtcca tctggataga cctcctcgcc aagtgcgacg cgtcgctggg 180
gatgaagatt gccacccggc tcaacatgaa gccaaacatg tgatgcttct gctgaataat 240
aatgaagaca cgcatgcatg tcgtcgtcag gaacaagaga aataatacaa gaccagcacg 300
catgggcata ctctatatta tagatggcca aaaagcacga ggcccgtgag cccggcacga 360
agcccgtttt ttggggcccg tccgagcacg gcacggtaga ataagcgggc gggcttgaac 420
aggaaaactag gcacggcggg ctagcc 446

<210> 29476

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A9

<400> 29476

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gaaaagatgt gcctgtctca ctccccaacc aacttgtgaa ttgtcatgca tcgatacctag 120
ctagagcatc tccgagagca aaaacccttg ttacagtttt ccaactcaca ttctactata 180
tattaggatg tgttgggcac acatggaagt aaggcaaaat gatgcatcga catgtgatac 240
gtgagcacgt atttcaaaac ccgatagggt gggttgagtg ggcttcttaa aattattact 300
ccgaagcgtg caattgagat tgtagtatta taatacccac gtatttgtaa atctggtatc 360
gtcgatgctt taaacaccca tctatatata gctcactcac tgctgctgtt actggcattt 420
cttccctaata cccgttcctg aaa 443

<210> 29477

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B1

<400> 29477

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gtcctatgag gaactattag cacttgagga aaggatcgga aatgttagca ctggcctcag 180
cgaggaagct gtgataaagt tgctcaaaca aaggaaatct tcatcgtgga gactaaaagc 240
atctttggac ccagaacat gctgtatttg ccaggaagag 280

<210> 29478

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B11

<400> 29478

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gccccctctgc tgcgatgtcg acgacaacac ctttgctgcc cgacgggagc catctgatta 180
cagataaaaa ttttcctagc tgtaaagctc tataccacca gatactgcca tatgatggta 240
tggttgggta cccgtctttc tagggagttt cttttctctc tctctttttt cttattgtta 300
tgtttttcaa tagtggagtg tgcgcgtgtt gtaatcggtt ttacctgcgt ttttctctaa 360
ctagccggtg acctcgcggg aagcgaggtg aagaaataat gcaactaaaa ttctctgcc 419

<210> 29479

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B12

<400> 29479

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ggtaattcca cactacaagg gtagaagcaa agaaacaaat gatgaggctg agggtaaaca 120
atacaatgat aaggatgttg atattggaaa gccagtcttg acatcacgca catcatgtca 180
ggatgttcca ttgctcttac ctcaagagct tgaacctcgt gaattatcca gttcagattt 240

aagggtgaat gatttagata ttaaccattc agatcgttta aacaagaaga actttaatca 300
gcctttgctc aaccgaaagg caaaactgga ttcttctcat taggatttac ctattataat 360
gtttgtagac aatttta 377

<210> 29480
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B3

<400> 29480

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gagctcgaga acggcgctct gtgggaggtc gagggaaagt gggtcacca aggtcctgtt 180
gatgtagaca ttggtgccaa ttcacccgcc gtgggttgtg aggatgaaag cgcttatgac 240
a 241

<210> 29481
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D10

<400> 29481

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agggatacta aaataaaggg tgggtgctttc aacgattgca atcttactat accattactt 120
gccttgagtt aactgtgcta tagggttata acaactgcaa ctaattaaac cttgtttttac 180
accaacttaa ttgcctagtc ccatattacc acttaattaa aactgtttta tacctataat 240
gctttctcgc aattgccctt ccaaacatta ggactggctt aatcgccaat gagaatcact 300
acgcacccat aatgtatatt ctgacgcacc ttaatacact cccttaataa cctcttgatt 360
tgacgatact ctata 375

<210> 29482
<211> 446

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D12

<400> 29482

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gttctgcgtc gccagatata ccgggaacttc aggaagcctt tgattgtgat gtccccaag   120
aacctccttc gccacaagga ctgcaagtcg aacctatctg aatttgatga tcttgcgggc   180
caccctggat ttgacaagca ggggacacgc ttcaagcgtc tcattaagga ccagaataat   240
cacaaggacc tagaggaggg aatcaaccgc ctagttcttt gctctggaaa ggtgtactat   300
gaactggatg aagaaagaag gaagtcggag cgactgatg ttgctatttg tagagttgag   360
cagctctgcc cgttccccta tgacctcatc cagcgcgagt tgaagagata tccaaatgcc   420
gagatcgtgt ggtgccaaga ggagcc                                         446
  
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<210> 29483
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D9

<400> 29483

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taagactctg attgcaaatt gaatgttcaa caatgctcat ataaggctca cgctcaccgc   120
tggaagaaag gtgacatctg gaatgagtc agctttcaat ctttatgggt gtgccttgat   180
tgtgcttgca gagtggaaac caccagtta tgataactct catgggataa aattggttac   240
tgccaccaca cgtcgaaatt ctccaaatag tatagattcc aagattcatc acaacaatct   300
tatcaacaat attctggcaa agatagaagg taatcttgcc caggctgagg atgccattat   360
gctagataag gatggctttg tatcagaaac aaacgcaaca aatattttta tgggtcaaaaa   420
gggaattgta ttgacacctc atgc                                         444
  
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<210> 29484
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E10

<400> 29484

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ttcgtcggcg gcctcgcctg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
tacggcgagg tcctcgagtc caagattatc ctcgatcggg agacgcagag gtccccgccc 240
ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300
ggcaaggagc tggacggccg caacatcacc gtcaacgagg cccagtcccg cggcggccgt 360
ggaggcggcg gcggcggcta cgggtgtggc cgtggaggcg gcggctacgg cgggtggcggg 420
cgccgtgatg gcggcggcgg c 441

<210> 29485

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E11

<400> 29485

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tgattgatat ttttatagtg gtaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaattac aaacaaaaaa 180
aaacaaaaaa ataacaaaaa atattaaggc accaaaatta aattaaacaa gcccgaattt 240
taaaaaaatc caaacttgta aaaaccttaa tatacccaac ttaaaagcct tttaacaaaa 300
cccccttttt ccaactgggg ttattaccaa aaagccetta ccaaatcacc tttccaacaa 360
ttgcacatcc ttaattgcta attgcacccc ccc 393

<210> 29486

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E12

<400> 29486

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 gaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaatg ttggcttcat aacttcttta 180
 ttttttaatg caaggtatgt actatttaaa tagttttctt taaattaatt taaattatca 240
 atttgtttaa aaagctttttt aaatggtaaa acctt 275

<210> 29487
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E5

<400> 29487

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 tgaccttcct ggtggctttc ttcattctat ccagctt 97

<210> 29488
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F10

<400> 29488

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 ttcaatctcc gcttcgcgca ccagagcgcc acccttggct gcgccatgac tttctccatc 180
 tacctgcccc cgtccccggc gtccaacctt cccgtgctgt actggctctc gggctctcacc 240
 tgcaccgacg agaatttcat cataaagtcc ggcgcccagc gcgccgccgc tgcccacggc 300
 atcgccctcg tggcacctga cacctcccca cgtgggttaa atattgaagg agagtacagc 360
 agctatgatt ttggtgtggg tgccgggttt tatttgaatg ccacaaatga aaagtggaaa 420
 aactggcgca tgtatgacta catt 444

<210> 29489
 <211> 446

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-F11

 <400> 29489

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 taatccaaag actaagttag cgtctcctcc atcgctcact gggtcagcta tatcattggg 120
 ttcggttatg caggcaagaa ataatgctcg ggtgctgtta tctggatcac tcgatctgtt 180
 tagcaaccgg ttcctgaagt ctggtgttca aaaggctgat agcaaaacaa gatatgagag 240
 agctggaaac gagcaatttg tggcagagat aagcaaattg gttttccatg agagggggaca 300
 tctaaaggct gttaattgta ggcatcaciaa ggttggggag accaatgaac caggcatgta 360
 ccgcattaat gatgacctgg aatactctgt tgagatctat gaatgggccg gaacaagctg 420
 gaagccgtat gttgctgatg atgtgc 446

<210> 29490
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-F12

 <400> 29490

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 gacgaagacc aggcgctgtg ctccatctgc atcaccgcgc tgggtggccag tgagaagggtg 180
 aagggtgctc cgccctgcgt ctactcatgg ctacggctct accccagctg gccgctctgc 240
 cgccggetac tagtactcgg cgacgccaat gtgtgatcag cggcggggccg atgccccgac 300
 caggagtgtt taagcagcgc attactaggt aatgtaattg agatggcagc gaccaccgag 360
 accgagtagt gagatctact agtactgagt gcgatatgta ttaaagacta tactactaaa 420
 agaagcgctt atcaccaat 439

<210> 29491
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F3

<400> 29491

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gagcggcaga tgaagg 76

<210> 29492

<211> 188

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-003-Q1-K1-F6

<400> 29492

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cagtatcccc tcggggccgta ctcttcctt tgtccgntcc gctgcgcac ttacggctca 120

cggcattgcc agtaggaaca aggtgtctgc gctgctctc tgcttgttgt tcctggccgc 180

ggtcgtcg 188

<210> 29493

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G10

<400> 29493

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ggccatcgaa aacgccgccg ccgcctctga tgctttccgc cgtgatggcg gcggcggcta 120

cggcggtggc ggccggcggt acggtggcgg cggtggctac ggtggtggtg gtggcggcta 180

cggcggtggc aaccgtggcg gcggctacgg caactccgac gggaactgga ggaactgagc 240

ggtggggccc gcgcggccaa gttatcctgt tcgctaccgt gatgtttacc ctagtccaga 300

gggtttatct tcgttcgtct cgtttgttg tgcccatctg tgtttttgat tgcaaggctg 360

ctctgtgtca gttgttagtg ctgtgttcat cctcggctcc agcagaccca tgcatacaacc 420

agcatggact gtggatcgat ggatgctt 448

<210> 29494
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G11

<400> 29494

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 cctgctcgcg cggcgctggg cggcgggcgc ggcccgtgc tgggcgggtg gaacccgatc 180
 cctgacgtga ggcactcgca catccaggag ctaggcgggt gggcgctggg gcaggcgaag 240
 caccagaagc tggccgccga cgggctgcgg ttccgccgcg tggtgccgcg cgagcagcag 300
 gtcgtgtccg ggatgaacta ccgctctac gtcgacgccg ccgacccgcg cggccgcacc 360
 gtgccctacg tcgccgtcgt gtacgagcag gtctggaccc gcacccg 407

<210> 29495
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C9

<400> 29495

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 ctcaagtggag gttcgactat gttcccggga atcgctgac gtatgagcaa ggagatcact 180
 tcccttgcaac caagcagcat gaagatcaag gtcggtgcac cgctgagag gaagtatagt 240
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 aaggaggagt acgatgagtc tggcccgga attggtcaca g 341

<210> 29496
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G12

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tgcaggacgc tctactaaca cgccatcagc cacacgtaca tcatgcctga cctaccagca 120

gatgcatgca tacacaacac atgaaccgtg tacattgaac acaccgtacg attatgcctc 180

ccgatcgagt gctagcacta actatcagac catcacttgc ccatatttct gagcaggact 240

aacatgtacc cgtcaagctt agctttcttt gtccaccatg tacgttcaca agcatgagta 300

gtcattcagg ttcataatga at 322

<210> 29497

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G5

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ggctattggt ggacaggaga ttggtccaga gaaagccagc gtcaacttgt caggctggag 120

cacatgtttg atgggaggca tctaccatac ggtctcacca acacaggaca acagatacct 180

tagaacttgt cgaggcaaga agtcttggac aggttgaata ggatcgctgg actgg 235

<210> 29498

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G9

<400> 29498

cggacgcgtg ggcgacgcg tgggcggacg cgtgggcgga cgcggtggcg gacgcgtggg 60

aaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaagg ggatgccttt ttagaggatc aaatttaact tacgcgggta 180

tgaaatgtta tatctattat atagggtcac caaaataaaa taaactggcc ggagtttaaa 240

aagatgaaga ttgaaaaa 258

<210> 29499

<211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H2

 <400> 29499

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 agcatggaca cccaagtga gcttgctgtt gtggtaaagg tgatgggcag gacctgctcc 120
 aggggtcatg tgaccaggt cagagtga aa ttcttgatg accagaaccg tctcatcatg 180
 aggaacgtta agggccctgt tcgtcagggt gacatactga ccc 223

<210> 29500
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H4

 <400> 29500

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 tgtgtcagcc cgtcgttggc tccgccttct attgcgtag ggaacacgcg gcgtcgccct 120
 tgcgctcctc gccacatgct gttacaggct gtcgtaccgc tgtccacggg tgagggcctt 180
 gtgccggtca tggtgaagaa gaagcccatc gactagatct agctcgtcgt cgggcgcctc 240
 tctgccgaag agagggagcg cctactacga ggtgccagct cgtgctgatg tcactactgc 300
 ttccactcct ccagaggtcc cagtacacc ccggttctgt gcatcgctgc tcgccgcggc 360
 cctgcacctg agccctgcct acatcccgag tcacacacct atcctttgaa gaattaatgg 420
 cgactggaag cagggtt 436

<210> 29501
 <211> 58
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H6

 <400> 29501

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<210> 29502
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H7

 <400> 29502

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 tcaaataaca tttgtttgtg ttgcgaattg ggaagagagt ttttagttag acgagctttt 120
 gatggcccta aagatgtttt cccggatgat gtttgtgctg ctggaccgtt tcctgttagc 180
 ttcgatggca tcctcccat atcgataaac tgttgcttag cctgacaatc ggaagagttt 240
 aaatgttaaa gatttgat 258

<210> 29503
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H8

 <400> 29503

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 attaatacag caacatctgt ttcctcgag gtatgggtga ccagacacta gaacagctcc 120
 catagacagc tgaatctttg atttacatca aacagtgttt acttatatat ggtcatatgg 180
 agtcggggca cgaatacata ttttcttctt gtatgttcta tcttctgcgt tccagcaaga 240
 tgtgttggtt aactacaata cagagggacg gtggccggct tgtagaggaa aggcttgacg 300
 gtgtgcggat tcccagacgg atttggttga agtgaacttc accccagagt gagcatcacc 360
 ccgccgtgtg caatgtagat ggaagctgct cataggcctt gg 402

<210> 29504
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H9

 <400> 29504

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gaccgcccgc cgccgaccgc cgacgatgcc tcccaaggcc aagaaggacg ctgcgccgtc 120
tgagcgcccc atccttggac gcttctctc ccacctcaag atcgggatcg ttgggttgcc 180
aatgtttggc aaatcaactt ttttcaacat agtaacaaag ttggctatcc cagctgagaa 240
ttttcctttc tgtaccatcg aaccaaataga agcacgggtg aatgttccag atgaacggtt 300
tgattggctc tgcaaacttt acaagccaaa gagtgagggtg cctgcatatc ttgaagtaac 360
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<210> 29505
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<212> DNA
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<223> Clone ID: LIB3067-003-Q1-K1-A10
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ccaaggatat caactcagca aggtggttga atcacattga tgcgctctat aggctgcacg 180
gaattactgc aaagggccaa ggtgtgtagg ttgaatcaca tgcagctcct tcagacccat 240
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acctttgtga tgaggagacc gaatatgaga agaacgctgc tgaagagcgt gctagaactg 360
ccaaggctct tggcaagaag aaagaatctg ggaagtcac agtcttactt gatgcgaagc 420
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<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-003-Q1-K1-A11
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gctgcaacac aaatgcctgg ggaggctgct ggttggttcc agggcacagc agacgccgtt 120
 agaaaattta tctgggtact tgaggattat tacaagcata aagctataga acacattttg 180
 attttgtcag gagatcaact ctatcgtatg gattacatgg agcttgtgca gaaacatgtc 240
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 tatggatt 308

<210> 29507
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-A6

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B11

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 gtcgcagatc ccgccgcgga gggacagga gaccagcgcc tggttaataag ccaagcccg 180
 tctaggtgac tggtgttggg cgatccgatc aggcggcgag gc 222

<210> 29509
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B12

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gtacaggtgc cgcgacttcc tccccgaaaa ctgcggctgc aagatccact agagactcat 180
ccaattccac catggccgcg cgccacagcg gcacagccga tggatccttc catgttcctc 240
cgtccgtccg ccttgctaca agcaggcagc cacaccaata agctagctct tgttggtgtt 300
ttgtatgttt gattgggtgt cccttcccag tcgagatgga ataaaataaa tcatcaggcg 360
ccaataagca aaaaaaaaaac aaataaaata aa 392

<210> 29510

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B5

<400> 29510

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<210> 29511

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B9

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tgacggcgat cctggagaaa ggcgggcagt tcaccatggt catgcggctg atgaaagaga 120

cgcagcaaga cacgcagctg aacagccagc tgaacagctc gtacgcc 167

<210> 29512

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C10

<400> 29512

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ttaacaaaaa agattgaggg gtagcataaa aaaaagaagt aaaatacaac cactactctt 180
gttcatcatc atcatctcct acagtatcat cgtgtgcatg gaccagga gacagagctgc 240
agcgttcttc cctcctccgt tccaggcacg aacgaacgcc cggatcccgg agccagaggg 300
ctcggtcaca ttatatactc gtcgtactca catcgcgta ggtgccttat tgcattccct 360
accgttcatc agctacgtac ggtgtgcgga tcagtcgaac aagctggcga tgcgtctat 420
gtcgcagagg atgagga 437

<210> 29513
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C11

<400> 29513

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ggaaagggca agtcacaaat tttcctattc tttctaccct tgctcgtgat gtgttgtcta 180
tgcaagtgtc tactgttgct tcagagtctg catttagttc ggggtggacgc attgttgatg 240
cattccgttc aagactcaaa ccagaaatta ttgaggcatt ggtttgttgt aaagattgga 300
agattgcttc ggagaaagat ttggagattg aaattaaaac cttaagtga gctatgaatg 360
acgttgactt ggaggatgct gctgcaatta gaacttgaga agttaagtt caagttacca 420
tggtatgatg tgaacttggt act 443

<210> 29514
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C12

<400> 29514

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gctcaacttc atcctcaccg tcgccggcct cgctatggtt ggttacggga tctacctgct 180

cgtcgagtgg atgaagatat ccgaggacgg catcggcggg gcttcgacgg cggaggtgct 240
 cgtctctggc cggccgttgt tgggggctgt cattctcggg gacagcttcc tcgacaatct 300
 acccaaagca tggtttattt atttgtttat tgggtgttggc accatcgtea tcttggtgtc 360
 tctgtttggc tgcattggag catggacaag aaacacctgc tgtttgtgtt tcgtatcctg 420
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<210> 29515

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C5

<400> 29515

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 agagaggtac ggcggccgat ctggcggaac atgcggaggg ctcggccgtt gcacgttagt 120
 cggcgccata tatgtggagg gtcctgatcg agctcaagcg gatggagaac aagttcaatt 180
 gccatgtcac cagcgccaag cgccgcaacg gcctgctcaa gaaggc 226

<210> 29516

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-H11

<400> 29516

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 tgcaatgggg aggatcactg ctggaattct tcgtctcctt aaacttgaca aatctcttgg 120
 gcaaggaact atagaacaac tacgtaacct atgaagtgtg ggcattggaca atatcttttc 180
 acccaggagg ctcaacaggc agaacagctt tggtagcata ggcactcctc ggactccaac 240
 tatgcaagcc attgcagacg tcatgagttc gaaaaccaca ctggaagcaa ctatttcctc 300
 attacaaggc gagatttccg aatccaaggc caaatgtatg gcactgattt ctcaagcaag 360
 cagcactgat gatcaaaacc gtgccgagga catcaggcag cttagcgaat agctcgagag 420
 catgcaattc gtggtgaca 439

<210> 29517
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-C6

 <400> 29517

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 atctatcgat actgttcaag ggaccgaata aggtagagag agaaacttgt ttgtgatagg 120
 aaggagatac atgttcatgt tcatttaggt gtcagttcat ctgatgtctc agaagcaaaa 180
 ttgtgttttg agctcagtga caccattttg taatgcatgt tcctttt 227

<210> 29518
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-C7

 <400> 29518

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 aatgtcttgg tgcattgttaa tggatggat ttctcacctg gaccactctg cttagccggt 120
 aagaactgag ccaactgataa ggactgaaac tgctcacgtg ctttgttgtt agcagagtgc 180
 tcatgattca aggaagataa ttttccattt tttctgtttg gtcaacgaaa cacacagaat 240
 gtgtactatt gtacactgca tgctgttatt tgc 273

<210> 29519
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-F3

 <400> 29519

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 tctttcaaca ctgcgggcga tcatccggtg cttcacctgc cctgacagat acttcgagaa 120
 agtcattcga ctggctcttg gaggcattgg cactgatgag gatgacctca ccagggtcgt 180

aactactcgc gccgaggtcg acctgaagct gataaaggag gcttatcaga agagaaacag 240
 tgtgccgctg gagcgtgctg tggccaaaga tacaactaga gattatgagg atattatgct 300
 tgccctcctt gggggcggagt gaggaggcgt gcctcaactc gatctcatct gctcctactt 360
 gtttgatggg gccaaaaaac tgcacgcacg tggatatccac atggccgtgg ttttg 415

<210> 29520
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F4

<400> 29520

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 agtcatgcga ctggctcttg gaggcacgga caccgatcag gatgacctca ccagggtcgt 180
 atctactcgc gcctagggag gcctgcagct gttaaa 216

<210> 29521
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F5

<400> 29521

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 taggatctga aagctgaccc cacagatgag ggtgtttcaa cactgtgggc gatcatccgg 120
 tacttcacct tgctgacag atacttcag aaagtcattc gactggctct tgaatgcatg 180
 ggacactgatg aggatgacct caccagtgtc gtaactactc gcgccgaggt ccacc 235

<210> 29522
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F9

<400> 29522

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acactggggc gcacaactac ggtctagtagt acaatcaaca aactaatctc aaaacatact 120
caccaaaact tactatattc aacataaaaa cacttactca aaacactcct tacatcctct 180
acaacattat atttccacat ctctaataca caaagtcatac taatctcttt caacgatcaa 240
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<210> 29523

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G1

<400> 29523

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aggggtttct tgaaggggac cgtatacact atctatcaga agatgataaa gctaagttgt 120
gtcatgggtc tacagataag ataactgcaa ttactatga cttggtctct gaagatgtca 180
ctgtgacaag gaaaa 195

<210> 29524

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G10

<400> 29524

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ccatttaatt ctgggaatga ctgctaattg tgtcaactaa tactgaatgg aactttgata 180
tgcagagtta aaaggacact gtttcactat cgtcgcacaa actatatata tgtagcctaa 240
atctaacttg aggactagaa tcagaactga tggccctgtc tgcataacaa ggatgtccaa 300
tgagacacta ctggtttcac gcatggaata cttctcggaa gtcatgaccg tttacaagcc 360
aaggcttctt acatcactga agctatagge aatatattga tctgatg 407

<210> 29525
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G11

<400> 29525

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gcttgctgat atctgtaaag aagtcgggtct tcctcccggg gtcttaaaca ttgtgacagg 180
attaggtcct gatgctgggtg ctcttttgtc agcacacca gatgttgaca aggtcgcttt 240
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tgttacactg gaacttggtg gaaaaagtcc tatagtagta tttgatgatg ttgacattga 360
caaagctgtt gagtggactc tgtttgggtg cttttggacc aatggtcaga tttgcagcgc 420
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<210> 29526
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G12

<400> 29526

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gagaacaagg ccattgccaa ggtggcgaaa acccagccgc cggtcgctaa cctcgaggag 180
ctcaagaagg atggcctcca gttcgccagc aagatctgag acgctcccggt tccatgtaaa 240
attccgtgtc atcgtgaagg ttcttctgga gctctgggtc tgattgagaa atgttctgct 300
acagatgtta tactacatac gtgactacac tacatgatat attcggtttt ctgattgtga 360
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agctagc 427
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 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-002-Q1-K1-G2

<400> 29527

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aagatgttac cgtgacaact gataatggaa agtcgttcac ttgcacactc agattcgaca 180
ctgaggtgga gcttgcttac tacgatcatg gtggcattct accatatgtc gctagaaaga 240
tagcggagca atagattgta ccgttgagat ggttgcgata cttgcggtga atcgtaattg 300
gtgtaaacgg tttggttagt agtacaaccc atttttgcgg actacttata ataacctctg 360
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<210> 29528
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G4

<400> 29528

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agttttcatg tctgatctcg acattcaaatt cccaactgcc ttccgatccct tcgctgaggc 180
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cagcaagatc ctcaaagatc tcaagaaaga gttctgctgc aatggtacag tgggtccagga 360
cccagaactt ggacaggtca ttcagctcca gggatgatcag aggaagaacg tctcgaa 417

<210> 29529
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G5

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 cattgggcta aaactcgacg tgtaaatgaa acttatcaag gaacactttc tagttatgcc 180
 tatgtgatta tgtgcattca cctectacag ctgcgaagaa tactcccatg tctacaggaa 240
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 gacaagctaa ataattatgg tgctcacaac agagatacag tatcaaggct gctctgggcc 360
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 ggg 423

<210> 29530
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-G6
 <400> 29530

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 tatgttacct tctcatctga taatcaaacg ttgttctctt gcacactaat tttaaact 180
 ccagttgaac ttccttactt ctatcatttt aactttttac catatatacc tattttgata 240
 cc 242

<210> 29531
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-G8
 <400> 29531

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 cgaactgact aggagctccg gatgtatcat ggaaacttag gacagaatcg cctcttcaac 180
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ggttcaacgt ttattctacc ctactatact gttggatggt ctttgggcct gggtcatttt 300
gcacaaggat tggaggtcca atatc 325

<210> 29532
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G9

<400> 29532

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agcatggaag acttcgcgga ggtcaggacc gctgacaagc caaggcttct gacatcactg 360
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<210> 29533
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-H1

<400> 29533

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ttcaatgttt gtcgaacttg ccgtgtgacc catactatat ctgctttggg atttagtaag 360
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<210> 29534

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-F2

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 ggtcgaggaa tgctggcttc gaccttttct tttctttttc tttctttttt gtttcgacat 180
 gtagatgcaa acttcgagag gcaagcatgt gtggtctttg tgagattacg gcgatattct 240
 atatcgtcaa ccataaccga agtcctattg ataatttaag gatttttggg aggcctcagg 300
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<210> 29535
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-D6

 <400> 29535

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 ctgagcttcg tgcagcgggt cggcaagtcc tacaaggacg ccgacgagca cgcgtaccgg 240
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 gcggagcacg gcatcactaa gttctacgac ctcacgccgg cagagtccg acggacctac 360
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 gcg 423

<210> 29536
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D7

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tgcgatacca aaggctatat caaatgctgg attagagtca tcccatgttg atttttttga 180
gattaatgaa gcattttctg ctgtcgcaact tgcaaatcaa aagcttcttg ggattccttc 240
agaaaagatt aatgtccatg gaggagctgt gtctctaggg catactcttg ggtgcagcgg 300
tgctcgcat tgggtcacc ttcttggtgt ccttagggaa aaggcgcca agatcgggtg 360
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<211> 238

<212> DNA

<213> Zea mays

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<400> 29537

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tgcgatacca aatgctatat caaatgctgg actagactca tccaatgttc atattgttga 180
gattaatcta gccttttctg ctgccgtact agcaaatcaa aagttacttg tgattgct 238

<210> 29538

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D9

<400> 29538

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gcgaagcagc ggacgacgct ggtgttcacg tacgggacgc tgaagcgcg cttctccaac 180
caccgcctcc tggaggagct cttcgcgagc ggggacgcgt cgctggtggg ccccgcggtg 240

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gggcttgcg gcctggacga gc 382

<210> 29539
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E1

<400> 29539

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tgtggagaaa tatgctgcag atgagaaggc attctttgat gactacaaag agggccacct 180
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aactgctgcc tgtatggact cgtgccaatc aaggagaacc atcagattgt ctagaggctt 300
ctttggaata aatttatctg gtcttgggac tttggctatg ggtgaatcgg aaccatttt 360
ccgttt 366

<210> 29540
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E10

<400> 29540

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cgccctccct gaggcaacca tcttaacaac aaaagaggct cgtacaatca cagctgcaac 180
tgctaaacca cttgtgcatg caaagtatca aaaaggaggc cagacacagg ttgatgaaac 240
atctaaaaag gcaataagga tgtcaaactc gcagctttgc caacatgagt agtctatatt 300
cgcttccccg caccctccac ttccttgctg tcgtgctgat tccagatcaa ggggtagtga 360
tccggaagggt ggctatggtt tttgtaagta cgaggcttaa gatcttggtc aaggaagggtg 420

gctatggtac ttttgatcct ctg

443

<210> 29541

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E11

<400> 29541

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gtactccatt ttgaaagtgt ccaagtgaga ctttatacat atatgcagtt gagagatgg 119

<210> 29542

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E12

<400> 29542

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cgaggatgtc ttgcagctgc ggatcaagct gcggctgcgg ctcaagctgc aagtgcggca 120

agaagtaccc tgacctggag gagacgagca ccgccgcgca gcccaccgtc gtcctcgggg 180

tggccccgga gaagaaggcc gcgcccaggt tcgtcgaggc cgcgggcgag tccggcgagg 240

ccgcccacgg ctgcagctgc ggtagcggct gcaagtgcga cccctgcaac tgctgatcac 300

atcgatcgac gaccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360

taataagcga ggccgagctg gctgccatac ataggta 397

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<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E2

<400> 29543

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ctttgtggat cgatggaggt tgcctctggt cattcggatc ccatgtttaa ccttgatgac 180
gaacattgta aaaagcattt tgttttatgg actggaatag tctgcataca tcaccatagc 240

<210> 29544

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E3

<400> 29544

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ggagggaat 69

<210> 29545

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E4

<400> 29545

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cgcaagaagg ccgccgcgag cggcaagccc aagcgcccgc cctccgcctt cttcgtcttc 180

atgtctgaat tcaggcagga gtatcaggcg ctgcacgctg gcaacaagag cgttgcgacc 240

gtgagcaggg cagcagggga aaagtggcgt gctatgtcat atcaagag 288

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E5

<400> 29546

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gtggagaaat atgctgcaga tgagaaggca ttctttgatg actacaaaga ggcccacctc 180

aagctctccg aactggggta tgctgatgct taaatgtcca tatectagag cgggacacaa 240
 actgctgcct gtattgactc gtgcgattca aggtgaacca tcagatggtc tagagattgc 300
 tttgtaataa atttaaacta tcttggtact ttgtc 335

<210> 29547
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E6

<400> 29547

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 tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180
 tgctggggac tctggtgcag cagcatggtc aaaggactac gttcacgtgc gcatccagca 240
 gcgtaatggt cgcaagagcc tgaccaccgt ccagggattg aagaaggagt tcacttacag 300
 caagatcctc atagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggacct 360
 ataacttggc caggtcattc agctccaggg tgatcagagg aagaacg 407

<210> 29548
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E8

<400> 29548

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 cgccttccgt ccttgcgcac ccgccgtgcc catggacggt ggctggctga acggcggcgc 180
 cacctggtac ggcccagcca agggcgctga atccgacaac ggtgcgttgc ggttcc 236

<210> 29549
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F1

<400> 29549

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ccgatggtga tgaaactggt ccagttctta gtgcgggcta catgtgtgca aaaggatggc 180
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caccacctc tactctcctg gaaggcaagg gcaccagag cgggtgcacat gttgatataa 300
tggggaactt tgctctaatt gaagacgtca tcagaatagc tgctggagca accggtgagg 360
aaattggtgg cgatcagggt tattcagata tattcaaatg gtcagagaaa atcaaattgg 420
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<210> 29550

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F10

<400> 29550

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gctacgacga ctcccactcc cacgacgacg gcgctcgtc agctggctct gaccgctgg 180
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tcgcggtggc tccgccagg agccccggtg tggacgagac cgtgttgag gagctgcacg 300
agctgtgcga ggcgcgcgag gccggcacgg cgttcactct gggccactcg cacgtgaaga 360
ccaagcccgc gtcgtcgata ctcaag 386

<210> 29551

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D5

<400> 29551

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atctttcttgg tcggacgttg caattccacc atgctgattc tggctcgtca acatatcgtg 180
ctgacctttg atcctattgg tcgtgcctca gacctgatgg ttctttttct tcagaatacg 240
aatgagcgtc ttctggcttt gtgatgaaac 270

<210> 29552

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F11

<400> 29552

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aattctatatt ttttcttata atgatgtgaa tcttgatggg ttaatatattat ggtttttagga 180
caattattat ggtttcatac tatttccagt tcttttagtca tggattttttt ttcagaagtt 240
gatgaactct accttcgcag gatctagttc cttgtatctt actgtctttt gagtttgagc 300
atatactgat gtggagagga agtgattgga aatcatctct tctccatta gaaaatagtt 360
atgaagtgc aaaggtgcaa gaaagtttta gtggcaaaga atctaataa aaggttacac 420
attcaggaaa tggtttgatc c 441

<210> 29553

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F12

<400> 29553

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tgagaaaggg atctctaaga tcagggccag gaagagtgcg ctgctggctg ccgagatcaa 180
ttacatggcc aaaagggaga ctgagcttca gaatgaccac atgaacctca ggaccaagat 240

tgaggaggga gagcaacagc tgcagcaggt gactgtggcc cagtctgtcg cagcagcagc 300
 tgccaccgac gtggagctga atccgttctt ggagatggat accaaatgct tcttccctgg 360
 cggccccctt cgcacactgg acatgaagtg cttcttcccc ggcagcttgc agatgctgga 420
 ggcacagcag cgccagatgc t 441

<210> 29554
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-C11
 <400> 29554

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 accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180
 tggatcgcca gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggacg 240
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<210> 29555
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-C12
 <400> 29555

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 gccgcggctt ctacggcccc ggcggcgctt acgcgctt cgcggggccgc gaggccagcc 180
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtt cggggacctc tccgggctca 240
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 tcgtcgcccg actgcgcgcg gacgcctgaa ctgcgcagtc tcgggtctaaa ttactctgt 360
 cctgcctctt ggggtgttca gtgctgtgct tgcttgcttg atgctagttg ctttgctacc 420

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433

<210> 29556
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C2

<400> 29556

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accatggtga gaaggacggt gctggctgcg ctggttgtgg ccgccgacct agccgtcggc 180
gcgcgtgcgc agctcacgga ggggttctac gactactggt gccacacagg ctgaggatat 240
cgtcaaggac tacgtgaagg cgcaca 266

<210> 29557
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C3

<400> 29557

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cccaggcctt gaaggttgcc aaggctgtga agtctggggc agccaagaag aagaccaaga 180
agatccgcac gtctgtgaca tttcaccgcc ccacgaccct gaagaaggct agggacccca 240
agtaccacgc aatcagcact accggaagga acaagcttga tcagtaccaa attctcaggt 300
acccccttac cacagaatca gcgatgaaaa acattgaaga tgacaacact ctggtcttca 360
ttgttgacct taaggcagac aagaagaaga tc 392

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<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C4

<400> 29558

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ggacgctttg ttgagataat cttggctata cgttttttca tataaccagta tggccttgtt 180

taccacttac atgtcacaca taacaaaagc atctcggtat atttaatttc ttggctcgta 240

attgtggcgg ttctgctcgt tatgaagact gtgtcggtgg gaaggcggac attcagtgca 300

gatttccagc tattcttgcg tctgatcaag tttttgatat ttgatgcttt cattgctatt 360

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gcat 424

<210> 29559

<211> 400

<212> DNA

<213> Zea mays

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ctacgccggc tgggccagct ccaagcagat cgtcgctggc gacactgttg tgttcacgta 240

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ccaccactac ttcctctgcg gctacccggg ccaactgcgct 400

<210> 29560

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 29560

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 ataaatgtga tctgatttgt gtagcttgct cgtcttgcta agatggaggt tgagtatcga 300
 tgtatccaga tcatagagat tgggtcttcca atgggtaaac atattangat gagagacacc 360
 ccgggggtct aaaatctaata gttgagtcgc cattgcaagt tctgaatttt gcaatataag 420
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<210> 29561
 <211> 227
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-C8
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 ggtgcgagct gattgaccac aatctgcctc atgtgatcca caaggaccgc gttgcgctcc 180
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<210> 29562
 <211> 360
 <212> DNA
 <213> Zea mays
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 tttgcccttt ttttttttct tttttcttcc ttgcttccag cttgttggtg atgcagtttt 300
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<210> 29563
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D1

<400> 29563

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gtttcaacaa tgaaacttga agatcaccag cacagcttct tcttttcaga aacgtgcaaa  180
tatctatttc ttctgtatga tgattcattc ttgaggaatc aaaattacct ttttacaacc  240
aaaggtcatt ccctttcaat aagaaacacg tggcatgaag aattttctgg aacatatgtt  300
cccaggcatt ggacatcttg taagggttag gttcaacca tttgcgccag cgcattattg  360
tcttaagggt tgccccgagac cattttc                                     387
  
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 <211> 440
 <212> DNA
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<223> Clone ID: LIB3067-002-Q1-K1-D10

<400> 29564

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aaggatatag attctttcat ggcgtcagac ttcaagctgg ttggctatga tcctcaccag  180
aagctagaga tgaaaatggc agtgtaacgg tggcttagct ctggagcccc cagccttgga  240
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<212> DNA
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 <223> Clone ID: LIB3067-002-Q1-K1-D11

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<210> 29566
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 <223> Clone ID: LIB3067-002-Q1-K1-D12

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<210> 29567
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 <212> DNA
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 <223> Clone ID: LIB3067-002-Q1-K1-D3

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 gacgggctac tggtggcttt gctcggttgt tttttttttg caaccaattt tataggccga 120

ttcttttatt tgtacatggc ctgggttggtg ctgcttgoga ggtcctaaga tgctcatagc 180
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<210> 29568
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-D4
 <400> 29568

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 gagtgaggaa gctgcagtac atctcggagc ttgaacggag cgtcaccagt ctccagatgg 180
 aggtgtcggc gctgtccctt cgcgtggcct tctctgacca ccaccgctca ctgctcaccg 240
 tcggcaacag ccatctcaag caaagaatcg cggcgctcgc ccaggacaag atcttcaaag 300
 acgtcacca agaggcgtg gagaaggaga tccagcggct gcgccaagtg taccagcagc 360
 agcaggtcaa ggtggccacc accggcggcg ccgacatcgc caccggcgac ttcgcgtc 418

<210> 29569
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-002-Q1-K1-C10
 <400> 29569

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 tgccccctgct cctcgggttc ctctccggtt gggcgtttgg ccgccggggg tgggtgggccg 180
 agaccgagat gatatcgtgg aacgatgtat acacggtgct gaccgcgatg gtgccccctgt 240
 acgtggccat gttcctggcg tacgggtcgg tgcggtggtg gcgcatcttc acggcgggacc 300
 agtgctccgg catcaaccgc ttcgtggcca tcttcgccgt gccgctgctg tctttccact 360

tcattctccac caacgacccg tacgccatga acctnccggtt cctggcccgcg gacacgctgc 420
agaagctggg cgttctcgc 439

<210> 29570
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A4

<400> 29570

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cctttgagga atctgtttca accggtgaga ttgacagaaa gatccagtcc ccgctagaca 180
aggttgagaa gttcaagagc atcagaagcg acgtggacag tacgggtgcca ttcctgtctg 240
tttacatcgg agactcggtc ggtgatttgc tctgcttatt ggaggcagat atcggtatcg 300
tcgttgggtc aagcacaagc ttgcgtagag tgggcagaca gttcgggtgtt tcctttgtcc 360
cgttgtttct cgggtctagtg gagaagcaga ggcaactgac ggatgaagat gcgtccgcgt 420
tcaagcccgcg gtctggagtc ctttatcacg 449

<210> 29571
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A5

<400> 29571

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gtagcagata aatcaggttc gaaccatcaa tgggccaat gtgaagattg ttccaaatgg 180
aggaaacttc caatagatgc tctgttgccc tccaaatgga cctgctctga caacaaatgg 240
gatccagaga ggtgttcttg cgaatctgca caggaaataa gtatagagga gcttgcagaa 300
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gcttcagatg ggctggacac gcttgc 386

<210> 29572
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A6

<400> 29572

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 tttcttatat cctctagaac ccccgatagt agatgagttt gactgggaaa tggacgatta 180
 cgaggatttt gctgatcaga aagttcaaga aggtggcctg ccagaggatg agaaagaaaa 240
 attcaaggag ttctgaagg agaaggtttag agaaaggaag agagagctta aacaggctaa 300
 agaagccagg aggaaagcta ttgatgatat ggatcctaag gtgaaagagg cattcgagaa 360
 catcaaattt taaaaatttt atcctgtgaa aaccccagac acgcctgatg tagacaatgt 420
 aaaggctagg tacatcaacc gatactacag ga 452

<210> 29573
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A8

<400> 29573

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 tcttctcgca ccaggggtgt cgcgagatat ctcaagactc tgttcgacga ggactccggt 180
 ctggggagga agagcgtcgc catcgaccat gtggtgcgcg ggaagacgcg gaaggaagcg 240
 tggaggatgt tctgcgagac cttggtgctg acgacgaatg actacatcag cgtggaccaa 300
 ccgaaccctt tcgacttcgt gagcgtgaag ccaggcccgg agctgggtcat gtcagaattc 360
 tagatcagca gagtca 376

<210> 29574
 <211> 399
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A9

<400> 29574

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tccgctaaat tgtaccggcg tcttcagaga cgctaaatgt ggcggatcac gggcatcccc 120

tacacgtcgg ctctgtcttc tccccgcgac ggggcggaat tttccccctc acgttctctt 180

cccgtcgcaa aggtcttgtc catggcgccg gctagtttcc ggtgggattt ctcgaggcg 240

gtctcggagc tgggatcgag gggaccactc gggtcgaagg tgcctactcg cgataatcgg 300

ccaagcgctg tgtgccctcc tcgaagctca gtgccgagaa aatgaatcgc agcctggatc 360

tggcatcctc gtcgtcttcg attcaatcga cgcttctag 399

<210> 29575

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B1

<400> 29575

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ccccgcaccg taaccctagc agcagatcgg ccatggagag ctgggcgacc tgtgtgggga 120

caagcgtcac ctccggcttc ttcgcctgcc tcgagcgtg ctctctgcatc aacctctcca 180

ccgacgacga cgacgacgac gaggaccacg acgaggccaa aggccggggc cttattcttg 240

gcggccgccc aagccactac ttcggcgga agcccgatcc agacttcggc ggccaggacc 300

aggacgacca gaagcaagag caggcgggcg tgccggccgt atgaatcgga cccgattcct 360

tgcttggact agctgctact gctggtatgt cgccaaataa agtcgtgtgt gcgtgtg 417

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B11

<400> 29576

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 ttcttcctcg gcaagcacag gggccgggag gagatgcgaa ccggcgctcg cgcgaggtc 180
 tacggcacgc cgctgccgcc gcccgcgctc gtcggagtct catcgccgcc gcctgagccg 240
 attcacgcca agaaacaagg gcccgagcc gtctgattga gatccattcg tttctaccta 300
 ctactgccta tgttttggtg atgttgatt tattcttct tctttatctt cgtccagacc 360
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 acgacttacg aggggagggg gtgat 445

<210> 29577
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-B12
 <400> 29577

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 taaattaatt aaaattcact agttgacggg atacgacttc atgccttgta ctaactcacg 180
 tataccgtaa cttcactaaa ttgaaccata tgacaataaa acgactggcc tagcttagcc 240
 taattgatgg acctaaataa tgtaccaa atgtgtgatatg catattgatt cttctcatcc 300
 tacttgcttc tacatattaa gcactatagt attgcatttt a 341

<210> 29578
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-B2
 <400> 29578

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 ttgttgttgt agcatgtgat ggcatttggg actgcatgtc aagccaacag ctggtggatt 180

ttatccacga gcgtataaac acggagagca gcctgtctgc cgtgtgcgag agagtgctgg 240
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tggtgcagtt caaaaaacct gtcgatcgga acaagaaggc cgaagcagca gggcaatctg 360
ccagcaatgt ggacgaagcc aagagtcgtg ttgctgagga gtgaagcatg gctggcac 418

<210> 29579
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B3

<400> 29579

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tcatatctct ttcattttgg tacaaatgca tatatcttat tattctcgta ccatgactac 120
ggctaatatg tttccaagta tatttctata ctaagtcgta gattgaaagg gaaatggagt 180
cttcggcgaa gacaaggctt ccaactcaact ctatgggtgt tatctaccct ttggcattac 240
ttcgtaatct at 252

<210> 29580
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B4

<400> 29580

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agtctgccaa gacgttcgag cccaaatacc gccttatcag gaatgggtctt gctactaagg 180
tagcaaagtc ctggatgcac atgaaagagc ggatgaacag ggcc 224

<210> 29581
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B5

<400> 29581

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gcaacttctt ggacgatgac gttgacaagg agcagattac attgcgacga ttgactgctc 120

tgcagggtgcg tgcgtgctg tgtctgtacc tctttttttg tttcttgggt tctttacttc 180

ctttcattga ggccactgag ttacaggacc tgaggcgccg gccacaaatc gcgatttttag 240

taggaacccc cccgtgggat t 261

<210> 29582

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B6

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gtgtgtgatc atgtctggca tcatctgcaa gtgcaactgc ggctacagct gctgctgcag 120

cagctcatgc aactgcatgt gcaatgacgt ggagaccgac gtcgacagca gcatcaagac 180

catggctctc actgtgccga ccaactaaggc cagcaccagc ggcttcgacg cgggcaccga 240

gggcggcagc tgcgactgca acagctactg ctgcagctcc agctgcggct gctgctgctg 300

cagctgcagc tgaaccggcc cgtcaggcct ggcgatcggg cagcagagtc gagaggacaa 360

cgacgacgac gcgtataact atgcttaata gcatcgtcta tatcaga 407

<210> 29583

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B7

<400> 29583

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ggcgtgttca ggtttaggcc cgtcggaatc aaatgcacaa ctgcaggtat agccagataa 120

gataatcggg ggagctcaat gcaagctcgg gattggacga ttgtagacat cactaacaac 180

atcagaggag cgagcttgcg gtcaaaaaca cagatgggca acaacaacaa tgaacacgaa 240

acgaaacaaa cggacacgag acgaccacag acgaagataa accccctcta gactaggggtg 300
aacacggtag cagaagcgaa caagataact aggcctcagc ggaccccacc gtcagttcc 360
tccagttccc gtcgttggtg ccgtagccgc cgaacggggtt tccaccaccg tatcccg 418

<210> 29584
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B8

<400> 29584

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tta 63

<210> 29585
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C1

<400> 29585

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agggccgaaa atggcgcaaa aatgtgaagg ctttagaaaa ggagttatta ctcttgggaag 180
atgacatgaa ggctctagaa gagatgtatc ctcaaggaga acaggctgag gctacttggg 240
cattcacagt tcttgggtac atcgggaaac ttctatttgg tgttgctggg ttaataggtt 300
caatagcttg ggttgcacat attgtcatat acttggtgat agatcctcct gtatctcatg 360
tcctgaatga agtcttcata aaattggatg gtgtttgggg tctgcttggg actgc 415

<210> 29586
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A3

<400> 29586

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gtgtgatgtt tacaccaata taattgaata aacaggggat gtgcgcgtcg ttgtacttat 180
gctgatgctg aggtcgtggt cgatatatat actgaacttt tggatgatgc tcttcttttc 240
tggggagacc taatggaacg aaaaaaaatg tgtcattggg gcctgtggta caaacctgc 300
tgtgtatggg cctgtctata agaaacagcg attagctgtg acgttatgtt tctgacagtt 360
tatttactaa tgagcacatc tttaatttac taaaaaaaaa ataaaaa 407

<210> 29587

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H1

<400> 29587

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cgatggcatc gccatcacgc ccgagaagat cgccacgata gtgaaggcgg ccaacatcaa 180
ggtcgagtc tactggccgg cctctctcgc caagctctcg gagaagcgca acgtcgagga 240
cctcatcctc tccgttggat ctggtggcgg agctgctcca gttgctgctg ccgcacctgc 300
tgggtggtgct gcggctgctg ctgccccggc tgtcgaggag aagaaggaag aggccaaagga 360
ggagtctgat gaccgacatg ggcttcagcc tggctgac 398

<210> 29588

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H10

<400> 29588

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acagcatacc gccacctca tgctaagggt tctgcagaac ttcaggacaa gctcttttgt 180

ggactagctc ctgctggggg ggagatgagc aaaaatgcat tgcgaaacaa gaagcgcaga 240
 gagaaacaga aggaaaagaa agctgctgaa gcgtcaggct ctctgctga tgaaagttga 300
 tctgtgccgg attactttca gcattgccaa ccaccgagta taacagtgc aaatgatttc 360
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 gtttg 425

<210> 29589
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-H11
 <400> 29589

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 acctgaggaa atcgacacgc ttgagcagaa cttcctgtcc tatttctttc gggatgatgga 180
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 tcgtaggggc attggattgg accgcactag caactttgtc ttcattggaga aagtggacat 420
 gatcataact cgt 433

<210> 29590
 <211> 268
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-H2
 <400> 29590

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 acgaggtcca ggtccgaggc ggcaaccggt ggcgggtgtc ctaaagtcgc tccgcctgag 180
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ggcgggtggtg gtggggactg ctgaagct

268

<210> 29591

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H3

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cacttccttt gcttgcacca cgcccgctgc tacttctaaa tggcgctgaa gatcctcggt 180

gccaataag tggtttagga gaagctatct caaaaactgc taaagcttac gaagaatctg 240

gttgcgcgga gaagttcatg ttcattgcag agcctggagt cggccataaa atcacaatcg 300

acatggtgaa ggcagcaagc gaatggttcg atcgcttctc gcatgcatga atgcaaaagt 360

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<212> DNA

<213> Zea mays

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<400> 29592

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acaaggcctt gaaggaagac tcagttttcg ttgtgacatc aaagaaatca aatctggata 180

ggtgcaaact tccattgga atccgcctgt ttgtatcagc tggccatact gaattagaca 240

tctccaggct tctctcatcc ttgaagaggg tttctgcacg gggtctttca gattactttt 300

gatccacatc ggattccctt aagacgaaag ccattcattt tctacgcgct ttgtactcta 360

ggccgtgtgt gtttggtaaa tgtacataac ctgtacattt ctacatgtta tgaattgacc 420

tttgtgca 428

<210> 29593

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H5

 <400> 29593

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 aatcttttcag caccaattac atcatagccc cgccttgagg tggcagtaaa atcccagtc 180
 tactttttca cccattcagt aaaagcaatg gcagttacac aaacggctaa ggggatcact 240
 tccaagcaga ttctgattgg tactattggT gaccaggttt tggcacttga taagcgctat 300
 cttgatccac gccgttcagt gaacccgaca caacatgaaa aagaggacgg cattatacca 360
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<210> 29594
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H6

 <400> 29594

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 ttcagctgcc tcgcctggac cacggacgac cactccatgc acaatgcctt cagcacctac 180
 agcgaggtgc tggactccaa gatcatcatc gatcgggaga cgcataggtc ccgcggttc 240
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 tgacagaa 308

<210> 29595
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-H7

 <400> 29595

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 tcggcggcct cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg 180
 gcgaggtcct cgagtccaag attatcctcg atcgggagac gcagaggtcc cgcggttcg 240
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgccgc cgccttcgcc 360
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<210> 29596

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-H8

<400> 29596

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 cgaacaagag cagtgtgtgt tcccggtcct ttccaatcag gatctggtga agtttttgcc 120
 tttcatatcg aagaaattaa taattcatgt agagggagga ttcttccaac aatttgtttt 180
 ggatggagac ttagatctcc aaacactcgt aactatccta ctaggtggtg acatcagtcc 240
 ccaaaaacgt ttatggtcat agagtctgcc cttcgtttgt cagtcgggca atttttcttg 300
 catacaatgc cttcgtttaa gtatcggatg agttgctgcy actaanaaaa a 351

<210> 29597

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H9

<400> 29597

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 gctgctcttc ctgctggtgc cgaggagccc gccgcggccg agcctgtcgc cgaggcagag 120
 gctgctgctc ccgaggagct cgccgaggac gagccggagg ctctgctcc tgcgtggtccc 180
 caggagccgg ccgcccaggc ggaggctgct gctcctgagg agcccagaaa ggccagcgag 240

tgaggccgtg cgcacgcagc ggcggcggcc agggcccagg ggcgcgcgtg 300
 cggggtagtc gctcgcgcgc gtacatggca gtatgacacg ggattttgct gttcagtacg 360
 ctacggttac tggcgtctct ctctgtgtgt gtgtgtcgta cgtagcccg tacgtatcta 420
 gc 422

<210> 29598
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-A10
 <400> 29598

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 gatcaatggc gtccgagcag ggagtcgtga tcgcgtgcc aagcaaggct gagtttgacg 120
 cccacatgac caaggcccag gaagccggca agctgggtgg catcgacttc actgccgcct 180
 ggtgcgggtcc atgccgcgcc atcgcccac tgttcgtcga acacgccaa aagttcactc 240
 aggtcgtctt cctgaagggt gacgtggacg aagtgaagga agtcaccgcg gcctacgagg 300
 tcgaggcgat gccgaccttc cacttcgtca agaacggcaa gacggtcgcg accatcgtgg 360
 gtgccaagaa ggacgagctc ctggccctga tcgagaagca tgccgcgcct gcgcctgcgt 420
 ctgcgtctgc ctaaaggaga t 441

<210> 29599
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-002-Q1-K1-A12
 <400> 29599

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 atggccgacg agattgacac gaggccggcc tccgcgggct cccgcggccg tcctgcgcac 120
 gctaccgagg acgacgacag agaggagggc gagatcgccg ccgacgcccc ctcgcctgcc 180
 ctccccgcgc cgcacccgct cgagcactcg tggaccttct ggttcgacaa cccgcacggc 240
 aaaaacaaga tggccgcctg ggggagctcc atccgaccca tccacacctt ttccaccgta 300

gaagacttct ggggcctcta caataatata catcaccta gcaagttgat tggcggagct 360
gatttccatt gcttcaagaa caagattgag ccaaaatggg aagacccta 409

<210> 29600
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A2

<400> 29600

cggacgcgtg ggcggacgcg tgggcggctc cgcgcgctag tatatggagg cgtgagcgcc 60
ctggtcgtgc tctttacctc ccgaatttcc gtgaaaactc caccgctcgt gcagtcgtgt 120
gtgcagttgt gtcgcgcgcg tggtgaaacc cctccacgcc ggtgttccat cccctgcgcg 180
tggtcatgtg ggtgtaccag cgtccgggag atccgtccgt gccctcggga cgagctaggc 240
gaccccgaaat cggggggaat tccacaccgt agtgcgagac atgagcagaa ctacctgtct 300
ccgtggtcgg ctgcgttgcg caggcaattc ctaacgagcc agtgactgat gatccagggtg 360
ttcagcaggt ataggttgct gagcatgagc tcattgaagg agaaagaaca tgtggcccag 420
ga 422

<210> 29601
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G8

<400> 29601

cggacgcgtg ggcaagaatg gagtggagga agtgcttggt ctgggtgagc tcaacgagtt 60
cgagaagaag gggctggaaa acctcaaggg cgagctcaag tcttccatcg acaaggggtat 120
caagtttgcc caccgggaact aggcaccttg cgtccttgcc cggcttctaa caattgatgc 180
ccgcccttgc atttttgttt gactgcctat ttttcttgcc ccccgatatg ttggggcaat 240
gaggcgtagt ggtcgataat aaaaccacgc ggaacataga aaacgtgtac cagaaactgt 300
ttgcaaacac cgggtgcctct ttttgtgttg aaccaccatt agttgagccg tgagggaatg 360
gtgaacaagc tttccaaagg ataaaaa 387

<210> 29602
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-F11

 <400> 29602

 cccacgcgtc cgaaaaaaaa taaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
 aagaaaaaaaa aaaaacgcat tctgaatcaa aaaaaaactt tcatataatt actcttgcta 120
 aaaaataaat ttacctatgt tttacttcgt aaattaatta tatatgtgca ttactaataa 180
 catgcgaccc ctattatcaa gttcctattt tattatcact attcttgcat tgcattagtt 240
 ttcattattga tcgcacactc aagcttttca tgatctaggt tcttaaattc tactctcgct 300
 ctatcatcgc cttaacctca catagatcat aactttgtct ttactcattc acctatcttt 360
 aacactttcta taat 374

<210> 29603
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-F2

 <400> 29603

 gcgtccacgc gtccgggaat gtatcacatg atggtaacttc tgggttgctg ctgaagcaga 60
 gagagccata gtcgggctcg gatttgtacc cacctagctg aacctgaacc ttgaagtttg 120
 gtgcaattgc aatcgatttt gtaccactct tttaaaaagg gtatcgggtca atgc 174

<210> 29604
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-F4

 <400> 29604

 gcggtcctcg atccgatccg ccgagtgcac accacctttc cccactccga tcgaatcgat 60
 ggccgcccag ggcgagaaga agatgataac cctcaaaagc tccgatggcg aggagttcga 120

ggtggttagag gcggtggcga tggagtcgca gaccatccgc cacatgatcg aggatgactg 180
 cgccgacaac ggcattccctc ttcctaacgt taactccaag atcctatcca aggtaatcga 240
 gtactgcaac aagcacgtac atgcgggcgc cgtcgccgcc gtcgtctcga aggccgggttc 300
 cgacgacgtg ggtgccgtct tcggcaacag caccgtcggc tccggtgagg accttaagaa 360
 ctgtgatgcg gact 374

<210> 29605
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-F5
 <400> 29605

aaaaaaaaaaa aaaataaaaaa taaataaaat aaataaaaaa aaaaaaatta aaaatggggg 60
 aaataaatat tagatgaaaa aattaaataa ataagaaaat ttaaatgcta aaaaatggag 120
 gatatgttta taggttccac atttaccaa gtatgctttg gaagtgtatt tcattcatgt 180
 tgcattgttaa attatacaca atgctatctt gtttaataca ttctgacttg aaaatcctta 240
 ttgtgaatta tttaattgtg cttactgcat tttctatctt agacagttaa gcaagataag 300
 aatagtatctt cgagaatatg acattatatg aatttagcat gatcattgca ttaagggatc 360
 gctct 365

<210> 29606
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-F6
 <400> 29606

gcggtactgt tggttggtatc aagttcaaag atggcattgt cctgtgtgtc gagagagctg 60
 ctaacctcaa agatgatgct tgaaggatca aaccgaacgt atccattcaa ggcaccgtga 120
 ctctggcttg gatgttgctg gactatcagc agatggcatc aaattgctca aggaccagat 180
 cacaagctga cattgattaa tagggtaatg gtgaacccat ttctgtgaag tactaggctt 240
 atcgacttac acggtatact catttttaca ctgctgtact ggtggatc 288

<210> 29607
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F7

<400> 29607

cttcaagcta gctgatcagc caaaaggggg cgaaagacgg cgtttctgct cgccgtcttt 60
gttctctttc cttggtttta aacgattttt ctttctcttt tcgttgcata aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa 180
aaaaaaaaaa aacaaaaaaa aaaagaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaacaaa aaaaaaaaaa aaaagcagct gagctctcaa aaatccgagt ttaaaaaccc 300
ttgg 304

<210> 29608
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F8

<400> 29608

cgagaagggc ggcggagggc acttcgtcat cgggaccaag gccagctaca cctgctgccc 60
gctgctctcc ggcgtggcgc acctcgacgc cgcgctctgc ctatgcacca ccatcaaggc 120
caaggcgtc agcgtcagcc tcgtgctccc cgtcgccatc tcgggtgctg ttaacgagtg 180
cggcaagcac gtgcccttca gttccagtg cccgtaatct atagtacaac aattaagccc 240
atactgatca tcggctgcat atatgtgcta gctactatga agtatcacca cactaatct 300
atatccgcat gcatgcatca gtgcatgggt gattaagggt ttatacgctg tcaaagttat 360
acacgcatac ttatatcaca catatatata gcttatatta aggtagcttt 420
a 421

<210> 29609
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F9

<400> 29609

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gctctgccaa gctacatggc tgctacacaa tcagcaaagg cgaaactgcg gggaaatagc 120
tcaccaaaac ttagctctga ttcagcagag aaaaacggct tcaactcgctg tcaactccctt 180
ccatcctcta acaacggtaa gatggtttca cattctccac gtacacaaag gccagctaata 240
gctggttgca aggatggagc gaaaggtgac aaggctatgc tgtcatcaag agatgcaagc 300
gagagaccac tgaaagctga gtggagacgt tgacgcgggc aatcaaatac aaatcctgca 360
tttgattagc gtgaccgttt gggatggatg atcgcccttg cagaatgctc ggatttggtt 420
tgcttgggat gt 432

<210> 29610

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G1

<400> 29610

tcgcttcaag ctatctgac aaccaatatg ttaccaaaga cgcctttct gctcgccgctc 60
ggtttttaaa aacctttggt ttaaacaata ttactatctc ttttcatagc ataaaaaaaa 120
aaaaaaaaa aaaaaataaa acaataaaaa taaaaaattt aaataaacac atcaatataa 180
taaataataa aaaacaaaat aaaccttaaa cataatcaaa a 221

<210> 29611

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G10

<400> 29611

gcgtgcaccc gcacatcac caacacgcac gtcggattca gctgcctttc agccttaaca 60
gggaggtctc cgtcgactca gcgggaaact cgttactcaa acagtaggac tttcagggga 120
gacgcctggc gaaaagcatg cgtaagatca acgtcgcata gcgactacag gacgtctaga 180

tcaa atgcct acccagacgg gacactgagc ttcagaatga ccacatgaac ctcaggacca 240
agattgacga gggagagcaa cagctgcagc aagtgactgt ggcccagtct gtcgcagcag 300
cagctgccat ccacgtggag ctgaatccgt tcttgagat ggatacaaaa tgcttcttcc 360
ctggcgggtcc cttcgcgaca ctggacatga agtgcttctt ccccggcagc ttgcagatgc 420
tggaggcaca gtagcgccag atgct 445

<210> 29612
<211> 261
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-001-Q1-K1-G11
<400> 29612

ctcattcgat cggatgaact aatctattct gatggcatca tctaaacgtc cttcgtgct 60
ctctgatgtg cagtcggggg gccattagcc tttagataag actcactgga cttcgtaaaa 120
ggctactgat atcttttaaat aattctgttt ttctctcagg tttttaaact ttgaaacaca 180
aatatgcact tatactgcac ctactatata aacacacca tatcttaact aggtcactat 240
tactagaact gttgaaactg g 261

<210> 29613
<211> 374
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-001-Q1-K1-G2
<400> 29613

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gtttgacggg tcaacaaaga agctcagtga gttggaaaaa aataagttag acctggagag 120
catattgaaa gaactgaata acaccatttt aggtttgaac tcggagaagg atgcaacact 180
ccttcagcaa cagcagtctt tacagaaagt atctgatttg gagttagaac tctcaaagat 240
gcagttggaa atggaggggtc cttgaagaca nctgtttgtg agcttgaaga aggatgggtg 300
agncgccata cagaaacana accagtcctt tgaggtgctt aatacagaaa cttggtgagg 360

agataaatac attc

374

<210> 29614

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G3

<400> 29614

cgagtaaact tccagtcagg cattctccat atgtatcagg gattttacat ccggttgaagg 60

tgtttcttga aggggaccgt atacgctatc tatcagaaga tgataaaact aagttgtgtc 120

gtgggtctac agataagatt actgcaatct actatgactt ggtctctgaa gttgtcactg 180

tggcaaggaa aaccgagtct tcggtgcaaa gactgcgcca aggtgcacaa aggcgagtag 240

gagctagtag agatgcctca gataacatca tatctgatac agacaagatc tgtatgcagc 300

tatttcttga tattcaggag tacgcacgaa accttcgtgc gataggaata gacgcgagag 360

agattgattc ctacagagct ctatggcagt gtggtgcccc aaaagacaaa catgagaa 418

<210> 29615

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G4

<400> 29615

tcgtccacgc gttcgtacac acgtacgctc actctttcta aaaaaatta tataaatata 60

gaggatgcat attaaatagg acgcgtatac aaatatatat ctaaatatga taataactaa 120

gtagtatctt atttatacac ataagattac tggagtgtat tatgacttga aatttgaagt 180

taatactggt tcattga 197

<210> 29616

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G5

<400> 29616

cccacgcgtc cggacgtcac ctctgtttca ccagttacca cggagtcgg gagtgaagcg 60
 caggtcgggt tcgttttttt cctcggcttc ttctctctcg tccatcaacc cagggggaag 120
 gagcgggagg gagcgagcca tggtagtcag cacgttcaat ggacccggga ttgggatcgg 180
 gttcggtgtc ggctgcgggt tcggcgtcgg gtgggggttc ggaggaatgc ctcttaacat 240
 gttcggcttg ggtatcgggt ggggttgtgg atttggtctt ggactaggat ggggcttttg 300
 aaatgctttt ggttgtcagt atcgatcttc aagagttcag ttccaaggca ttgaatttca 360
 gaagaaggcg aattgagatg atgcacccaaa agttgtatca cgggagcttt gctcaa 416

<210> 29617

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F10

<400> 29617

cccacgcgtc cgctgatgta tatagctttg gcgtgggttg gatggagatc atcagtggaa 60
 ggaagaacct ggacacttgt cggctgaaa agagctttca tcttattacc ttgctagaag 120
 agaagttgag gagtgatcgc ttggtagatt tgattgatat gtgcattact agtgacagtc 180
 aggcacagga gcaagaagca attcagatga tgaagctcgc aatgtggtgt ttgcagattg 240
 attgcaaacy aaggcccaaa atgtccgagg tcgtaaaagt cttggaaggc tctatcagtg 300
 tcgaaactga catagatcat aactttgtcg tgacaaatcc accaagcttt agcgctccta 360
 gaattgtggt catgtcagct ccacctctag cttcagaagt gtcaggcca aggtgaaatt 420
 cct 423

<210> 29618

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G6

<400> 29618

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 ttgtcatatc gtggcatatg aaagcttcca ctatgtgtga attcactcgc caggagttca 120

ttggtggact gcagtcaata agagtggatt caatagagaa gcttcaggcc gaagtaccct 180
 caatggcagc tgacctaaag gatgaccaga agttccatga aatatacaac tttgcatttg 240
 cctgggcaag ggagaagggc cagaaatctc tcgcattgga gactgctatt ggcatgtggc 300
 agttgctatt tgctgaaagg agctggcctc tcattgacta ctggtgcaa tttctacagg 360
 t 361

<210> 29619
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G7

<400> 29619

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 tgggtgggtggc cgcggcctgc cttgccgcgc cgcgggggcgc ggacggcgcg gacgagtgcg 180
 gatgcgacgc ctgcggacac tgaggcgctg aggctgggcgc cgtgcgcgtc ggcagctgag 240
 gaccccggt gctctccggc cgga 264

<210> 29620
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D4

<400> 29620

gcgtccacgc gtgcggcccc ggttcagcaa tcgcagagcg gcgatggacg gcggcggggt 60
 ggatacggcc acgacggcgg cctggatgga gaagcaccgg cagatgtacg agcggggccac 120
 ccggcaccgc ttcaccgtct ccatccgcga cggtagcgtc gacatgtctg cttcaagcg 180
 cttgctgagc caggactatc tgggttgaaa gggatttggt gcattcata 229

<210> 29621
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D5

<400> 29621

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catctgggac ctccacgaca aggtcagcga cgcgatccac gccctctccc gcgcccactt 120
cctgcgcgcc gtctgccgcc gtcctcggc ctccgcccc ggctcgtgg acgtcaagg 180
cggcgggtctg ggtctcggcg cgcgcggcgg agaccaggtc gtgcacctgg cggccctggc 240
tgatgaggcc aggagcctgc acgccatccg cgcgcgctt gatgacctct aggaccagt 300
cgagtgtctt ctgcgcgcg agacacagca tcaggaccga acgagatttc gcgattgcca 360
gtcttgatca aagtcgcac atgctcgcga taaggctcaa agagcatcac gggagaaacc 420
ac 422

<210> 29622

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D6

<400> 29622

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tcatgataca agagttcagt tagacatgtc aatctgcaag tactgaggca atgatatgg 120
tcaataaaaa aaaagaaaa aaaaaaagg gctaaaaata aaaaaatcca aacttaaaga 180
acatatataa caaataaata aacttataaa taagatgaca gttattttta atagagtgg 240
ccttgttttt taactattta 260

<210> 29623

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D7

<400> 29623

cccacgcgtc cgaacagctt ctatgaaaaa aaaaaaaaaa aaaaaaata aaaaagagga 60
aaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaa aaatgaaat 120

actaaaataa aaaaaaaaaa taaaaaaaaa aaggccttaa tttttataga ttcaaacttt 180
aattacacat aaattaaaat ttttaacatt ttattataat acatttaaatt aaaataaatt 240
gcccttggtt taaaaatttt tattattgta aaaacctttt tattatcaaa attatttcat 300
ttgaataata tacatttttt t 321

<210> 29624

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D8

<400> 29624

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ttccgcacga ttactactgc ttactacagg ggagcaatgg gcactcttgc tgtgtacgat 120
gtcacagacg agtcatcttt caataacata agaaattgga tcagaaacat tgagcaacat 180
gcttcggata acgtgaacaa aattctggtg gggaataaag ctgatatgga tgaaagcaaa 240
cgggctgtgc ccacttcgaa ggggcaagct ctcgctgacg aatacgggat aaagtttttt 300
gaaacgagtg caaaaacaaa cctgaatgtc gagcagggtt tcttttccat agcaagggac 360
atcaaacaga gactttcgga aaccgattcc aagcctgagg atcgaacttt tcagatc 417

<210> 29625

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D9

<400> 29625

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ggccacgacg aactgagctt acgacacgat ccttaagaac ctctacatca tctaccacaa 120
gcgactaatg ggtcgactac accttcaaca actaacgtga cgttgtcaca ttgaagatca 180
tactgtatcg tcagacacga actgtccgcg gcttcgactt catcacctta ttgaccaacg 240
acgacatacg caatgccatc gaaggcatga acggcataga gcttgacggg cgtatcataa 300
acgctaacca ggtccaattc ctcagagggc gt 332

<210> 29626
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E1

 <400> 29626

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 agggggggat 69

<210> 29627
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E10

 <400> 29627

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 cagaggaaca ggacagatat ttggaagggt ggaactggta cgctgaaagt gaagaacgtt 180
 aaaaatggtg ccgtcccatc taaagaccga gttgcaaagt ctgaccctta gcgccgcagc 240
 aattgaagga gatgtttggt ttgaataatc aatctatatt agatgaggtg atgtatcata 300
 agttcattcc acaaatttgg tggaataaat ttattcctca tattatgact aattattaac 360
 ctatgaggaa taaaatcatg gtggatcaac ctattctatt atctaaacca aaagt 415

<210> 29628
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-E12

 <400> 29628

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 tgtttcaaatt ggtgctgtgc ttagcattgg atgtctcaca tccggtgaga aagcaatgaa 120
 cttatcagaa tctgtggatc aagctaataa aatcacaaag gcacttccta cgagtcagaa 180

caatactgca ccagtaattg ctcaagcaga ttgtggagta gagatcagct ctggtgtcat 240
catgcacgtt gctgtgtctg cttcatgcaa tggaactaca gagaaaaagg tgaattcgaa 300
gtcaaagaag tttgtgaggt atcctgttgt gaacatgtgg ttaggggtcca gacatctaaa 360
gccaggggaag aaagcgaacc gcatgagaag taaaatgata agacgtgttg tagcctgc 418

<210> 29629

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E3

<400> 29629

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tgattttctaa gctccggcgg agaagaagcc caaggccgag aagcgcttac cggcgggcaa 180
gtccgacagg taaggagggc ggcgagggca agaaggggaa aaagaaagcg aagaagtccg 240
tgagaccta caagatctac atcttcaagg tgctgaagca ggtgcacccc gacatcggca 300
tctcgtccaa ggccatgtcc atcatgaact tcttcatcaa cgacatcttt tagaagctcg 360
cggtcgaatc ccccgagctg gcgcgtata acaagaagcc caacggcacc ttctgcgaga 420
tcc 423

<210> 29630

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E4

<400> 29630

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aatgcagctt cagcactccg cgagggccaa taaacagatc aggcactaga gctgcacata 120
cggcgaccac cactcagtgc ttattcctcg gcgaggtcct tcttgacca tccgccgaca 180
agggcgccgc ggctgttgca gcagcctttc tctttggcga cgccctttcc ggcgccccat 240
cagcgggttc agaagccttc ctcttttgcg aagccctcgg cacggtagcc ttcctttttg 300

ttgacgtcg

309

<210> 29631
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E5

<400> 29631

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cgcacgcgtt cgaaaaaaaa taaaaataaa aatgaaaaaa aaaaaaagag aaagaaaaaag 120
aaaaaaaaaa aatatgaaaa taaagacaaa agaaataaca aaagcactta aatacgagtc 180
agaacaatac tgaaccagta attgctcaag cagattgagg agtagagatc agctatggtg 240
tcatcatgca cgttgctgtg tctgcttcat gcaatggaac tacagagaaa aaggtgaatt 300
cgaagttaaa gaagtttgtg aggtatcctg ttgtgaacat gtggttaggg ttcagacatt 360
taaagctagg 370

<210> 29632
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E6

<400> 29632

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tcaggactcc acgatcgcca agaaacagat caggaactag agcagcacat acggcgacca 120
ccactcagtg cttattcctc ggcgaggtec tccttgaccc agccgcccac aaggggcgccg 180
cggctgttgc agcagccttc ctctttggcg acgccctcgc cggcgcccca gcagcgggta 240
cagaagcctt cctctttggc gaagccctcg gcacggtagc ctctctcttt gttgacgtcg 300
tcgccggcgt cggggcaccg ggcttctgct tgctctccaa caccagctgc tgctgctgct 360
ccgcggcgat gcggtcg 377

<210> 29633
<211> 392
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E7

<400> 29633

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ggcggacaag aagccggcgg cgaagaagcc tgcagaggag cccgcgacag acaaggcgga 120

gaaggctccg gcggggaaga agcccaaggc cgagaagcgc ctcccggcgg gcaagtccga 180

cggtaaggag ggcgggcagg gcaagaaggg gaaaaagaaa gcgaagaagt ccgggggagac 240

ctacttgatc tacagcttca aggtgctgca gtatgtgcac ccctacatcg ggatatcgtc 300

caaggccatg tgcattatga actcctgctc atcgactgtc tcctagaagc tcgcgtcctt 360

atccgtcaag ctggcgcgct atatcaagaa gc 392

<210> 29634

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D3

<400> 29634

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ggatgctgtc actacggcgg cctgcatgca ctatcacctt ctgatgttcc agcgtgccac 120

tcttataccg ttcaccgttt gcatacatc cgcagccggc gacgtgtgag ccttgaagtt 180

cttgggtgtc cagcactgtg ttgttgtag agactttggg gcgttaatag cgagttagca 240

tactctcata ctcttttcgg gatttcggct ccttcatggc aatcatgctt gacacactgt 300

cgtctatgaa caataatgac tgttgcata aaagctatgg tgc 343

<210> 29635

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E8

<400> 29635

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tgaagacaaa agtcgtgggc tcaataatcc tgggtgtcgaa aacagggctg tcaaggagca 120
gatgggttga gcctgtaaga atgct 145

<210> 29636
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E9

<400> 29636

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tcggcgcccc cgttcccca cctctcgtct gctgcctgcc tgccctgcaa aaggagtttg 120
tcatggcgtc taagcgcctc ctcaaggagc tgaaggacct gcagaaagac cccccacat 180
catgcagtgc aggtcctgct ggtgaggaca tgtttcattg gcaagcaaca attatgggac 240
cacctgacag tccctatgct ggtggtgttt tcttagtgaa cattcatttc ccgccagatt 300
acccttcaa acctccaaag gtttctttca agacaaaggt cttccatcct aatatcaaca 360
gcaatggaag tatatgcctt gacattctca aagagcagtg gaaccctgct ttgacaattt 420
ct 422

<210> 29637
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F1

<400> 29637

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tatatggttt ttgtagggca tggccagag tagttgctgg aggtgtttcc catgcacgtt 180
ccatgttcaa ttatacacia tcctatcttg cacaatccat tcccacatca gcatgggcat 240
tccgcattat ttccttgctc aaactgcatt ctctattgca gacaatgaag caagagaagt 300
ttcttatttc gagaatatca caatatctgc atttagcatg agcataacat tagcaatcgc 360
tctttctttt cgatggatct cctatggaaa aaaagaagag ca 402

<210> 29638
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B9

<400> 29638

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ccctttcttct ccccgctctc cgccccgacg ctcaacgatt tcgctggcag cgagtacgcc 180
ctcgtcaccg agcgcgaggaga ttcgctctcc aggcctcgtcg gcgtcgtgt gcggccgat 240
gctgcctccc gcgaggttcc cgtctctgtc tcggagtaca tgcgaccgac gccgcgtca 300
gcctccgccc ctttcgactt tgaggaagca gcaaccttcc ttgccgatga gggctctggat 360
tacgcccctc tcgtatcaga tgatgggtgag gttgttgatc taatcacc 408
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<210> 29639
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C1

<400> 29639

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cctgggctac aagaccgtcc tcaagacgct gcgcaactcc aagggaaagc tgatcatcat 120
cgcaaacaac tgccctccac ttaggaagtc tgagattgag tactacgcca tgctggccaa 180
agttagcgtg caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta 240
ctacaggggtg tgctgcctca gtatcatcga ccaggtgac tcggacatca tcagtaccac 300
ccctggcacc cagtgaacca gcccggcac ccattgcagc tgcttcgggt ttctcaaaat 360
gagatgagat gtaacgctcc ggccctatgt ccgtttcctt ttttatcttt tagctatgta 420
at 422
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<210> 29640
 <211> 380
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C10

<400> 29640

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attcgcagag gtctgaactc agatctaccg cattgtgagc aagagagcag ttgaagctgg  180
cgaagattca gcatctgggc ctggcaaggg cgccaagatt aacatacagg atgatgtttc  240
ggcgggtgaag aatgggtggct gctgctgtag ctgacctgcc ctgatgtatt tattgagcag  300
ctgtgggtgat gtatcttatg gtacggcata tccagcgacc gagaactggg actggcatta  360
gcagctttcta tgatacctag                                         380

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<210> 29641

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C11

<400> 29641

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cgccgccaac atccccggca agtgcggcgt ctccgctcggc gtgcccata gccccaccgt  120
cgactgcacc aagatcaact gatcgatgga accatagtgg aggtagctcg ctcggttgat  180
ggcagcgta c gtggccatca gcagcatgca gtcgctcgtc tagcagagat gtcctagcta  240
cgtgtgtgtc atgcatcaga ctggcacata ataaagaagt agatcatgca cccactagtg  300
atcacttcgt ctagtgtccc tccgttcaat gtcgctcgtc tcgctcgtga ccttacgtga  360
catgctgtaa cacgtacgct agcaaagcag                                         390

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<210> 29642

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-C12

<400> 29642

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 cccacaggcc tgccgccaca gcaccgcgga tagcagagca gagcggcagc caggtcggtc 120
 gtcgtcgtcg tcgtcagcca tgagcaagga caagcaccac aagcacgagc accacctgcg 180
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 gcagctgcgc agggccatct cgctgggcga cccgtcgtcg acggcgtcgg cgcaggtgac 360
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 c 421

<210> 29643
 <211> 98
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C2
 <400> 29643

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 ggaggaagaa aaggcaaaaa gagagaaaga gcgtgagg 98

<210> 29644
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C3
 <400> 29644

tcgtctggat gaagttattc ttgtgggtgg atccaccgga attcctgcag ttcaagaact 60
 tgtggagaaa cttact 76

<210> 29645
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C5
 <400> 29645

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 atcatggact actcctccct cccccatttc tgcagacagg agggctcggg ctcatccaaa 180
 cattcgtcag gcgacgccga taactgcttc tctctcgacc acccgttcca ccaggagctc 240
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 gtgaaaatcc ccgagcagga ccctgaggac gcaaagatcg tggaggatcat cgaggccgag 360
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 tgtct 425

<210> 29646
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C6
 <400> 29646

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 caatcaaaaa ggaggttgaa gatcttgagg ctgatggtat tcaggatgac caaatcgatg 120
 aggcagctct aatggagggt ctggcactac gcaagtcaca tcatgcattc tacctggact 180
 gtactgtcca ctctttcaag atcaccaact gccgatttcc agacaccaca cagatccaca 240
 cccacatgtg ctactccaac ttcaacgaca tcatacactc catcatcgac atggatgccg 300
 atctgatcac tatcgagaac tcccgggtctg acaagaagct actgtccgac ttccgtaatg 360
 gtacgaagta cggagctgac attgaacctg gtgtctacta catccaatct c 411

<210> 29647
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-C7
 <400> 29647

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tcaatagaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaacatacta tataaaacaa 180
acaattaaga aagaagaatg atataaatac aataaaataa aaacaaaact aacaacagga 240
gatccaaata ctgcattgac aggtcataga tatgttcagc taacattact agtcatcat 300
ttggaccttc taaataagtt caccttacat caaatgg 337

<210> 29648

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C8

<400> 29648

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aaaattgtgt ctgatttcat tcttatgcat gccattgcgt tacctactct ataacacagg 180
taatttgatg gatgaatggt cttgttttct ttcattcttg cagaactcac aacagggatc 240
caaatttggt aagacagggt tagatagttc agctaacatt gggagctcat caattgcacc 300
taccaagacg ttcaccctgg atcaaatgta atgacctagg cagaagaacc gggtatgcct 360
tgacatcggt ctatatccag taagatgcta 390

<210> 29649

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C9

<400> 29649

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caattggctg cttctttgaa atcacattgg ctatacggag atgcataccc cagtatgggc 180
tcaagtataa cttacatgtc tgacatcgca cagccttctc ggaatatcaa agtcgtcgcc 240
tgatcctatt cagccaata aacagtgggc aagaactctg ttgattgaaa tccattcatt 300
tatacctact actgcctata gtctggcgat tgatcaagta ttcgatattc gttattttca 360

tccataccgt gactaccgtt gtaag 385

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<400> 29650

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agtcttagac gcctaatecg tagtttacat cccgaagggc ggcaaggggtg atccaggccg 180
accatggggtt acgtcgagag aagtgttggtg aaagacaagc ggactatatg gcgactgggc 240
ataatctcag acttcttttg ggctattgtc aacttcatca gaatcttctt tgacacactg 300
ttctcagtgg acaaaactga cagctacaac aaaaggtatg gggctgggtga gaagtgggat 360
gggtggacctc gtgggtgggtg tgggcggg 388

<210> 29651

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D10

<400> 29651

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gcatggctgt tttccgacac cttaaagagct tgtttgggtg cttaccgtca gactatagtg 120
ctgcagaaac aactatcggt cttgccaagg ctgtttcttc ttgtgtgcgc catatggaac 180
tcagtgtctc cagtgcctgt ctagcagctg ttgtctgttc ttgcgagcag ctacctcttc 240
agccactcgg tactgcctct ggtgatggag tgtctcagat agttaaatct gtgctggata 300
gagcgaccga gctactggcg gatccctatt ctgcagccaa ctacagtaga tcaacactgt 360
cgcttttgca tgcgtc 376

<210> 29652

<211> 433

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-D11

 <400> 29652

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 gcatcaccat caagccccag actgaccgct ggggtgttccc cgagaccaac actggcatca 180
 ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc tactggccat cctagctttg 240
 tcatgtcctg ctcatcact aaccagggtca ttgcccaact tgaactgtgg aaggagaaga 300
 gctctggcaa gtatgagaag aagggttatg tgctcccaa gcaccttgat gagaaggttg 360
 ctgctctcca cttgggcaag cttggtgcca agctgaccaa gtcaccaag tctcaggccg 420
 actacatcag cgt 433

<210> 29653
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-B8

 <400> 29653

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 gcatgaactc gccgaggaag acggtgttgt acgcaacgga ggcgacgtgg acggtgtgcg 180
 atgccggggtc gcgcgggtag aagtcgtcgg aggcgcgcac gacggcggtc tgcctggcgc 240
 tgtacagcat gtcggagttg tggcacatgc aggagatgca gccgttgtcc gggaagctgc 300
 gcgccacgga ggcctcgagc gcgcggtggt aggcgcgggt gatggcgac 349

<210> 29654
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-001-Q1-K1-D12

 <400> 29654

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 ttgcgcctaaa gatatatatt ttttcattgg ttttacacat tgtaagctag tgggatatcc 180
 ttgtcttaat aaactttatt tgactttgac tatgtaccgt tttcttaagt ttggatatta 240
 tagatttggc acgtactgat cttacattag accaattatc tgggtcttaca tgctaattggg 300
 acccgccatt gtactgctct ttaatcgcca tgggtctgaa tgttacgcgc aacgtgatct 360
 caacacttat tagttgccat ctgcctgcta tatatggg 398

<210> 29655
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-A1
 <400> 29655

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 ttctcctgga cattctgatg taccatctat tgctgctggt gttagttctc gtgaatggcc 180
 tcttatctcg aaatacagag cttctgtccg cacccaatca cctaaaatgg aaatgattga 240
 ctcatgtttt aagccacggg aagctgaaga tgatgggtctg atccgggagt gtttgattga 300
 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatatttc agggacggtg 360
 ttagcgaaag tcatttaatc aggtgcttta cattgagttg caac 404

<210> 29656
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-A11
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 agattcaaaa aggcagtttc aggtcgattt tgggaggatt tgggtgctagt ggtagtaggc 180

gaccagcttg agtatagcga tgatgtctgt ggtgttgtgc ttagtgtccg tttcaatgaa 240
gacattctga gcgtctggaa ccggaacgca tcagaccatc aggctgtgat ggcattgagg 300
gattctatca agaggcacct caagctgccg cacagctatc tgatggagta caaaccccat 360
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ctcatgatac tcggcagctt cac 443

<210> 29657
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A2

<400> 29657

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ttcatcttca aatggaagta ccacatcggtt ctctctgaca ttctcatgta caatgtatag 180
cacttgctgc aaaacgtctt caatacctat cttatagtgg caatacagac ctactatcct 240
cacccaatca actcaaattg acatgatcta ctgattgggtt aagctatgca cagctgaagc 300
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<210> 29658
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A3

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cctccccgag ctccgggacg gcatcacggc cgccaagagc acggtgtaca cgccggcgcc 180
gtcgacggcc ggcgcggagg cgtgggtgtg gcgcctggcc aaggcctacg tgaacgtgaa 240
cgactactgc tggcaccagg gcatcagcca ctggctcaac acgcacgcgg tgatggagcc 300
gttcgtgatc gccaccaacc ggcagctcat cgtgactcac cccgtgcaca ggcttg 356

<210> 29659
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<223> Clone ID: LIB3067-001-Q1-K1-A4

<400> 29659

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 caggcccgctg acggttgctc tgcgcgagat ccggatgtac cagtatagct cggatctgct 180
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 tg 242

<210> 29660
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A5

<400> 29660

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 ttctcctgga cattctgatg taccatctat tgctgctgat gttagttctc gcgaatggcc 180
 tcttatctcg aaatacacag cttctgtccg cacccaatca cctaaaatgg aaatgattga 240
 ctcatgtttt aagccacggg aagctgaaga tgatggctctg atccgcgagt gtttgattga 300
 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatattca gggacggtgt 360
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<210> 29661
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A6

<400> 29661

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cttgcacggg tcagcacctg ggctgggaac ctcaccctgc taggctctgc ggcgaatctg 180
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cacctccgat tcgggggtccc gtagaccatc atcgtcacgg cgatcgggtt gctcatcgtc 300
atcagttact gaaacagctg aaggcagaag agcgtactgt aagagaagca gaatggataa 360
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<210> 29662

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B10

<400> 29662

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tcttaaatta gctggcgaac aagaaaagct ggtgagtgaag agatggcttc cggagctgag 180
aaatgcagtt caagaagctc ggaggtgttt tgatgactgc cagcgtgtta ggggcttggc 240
tgatgagtgg tacgagcagc cagcagccac aattgtcgat tgggtaacga tagatggaca 300
gagcgtgggt gcctggatca acctcgtgaa gcaactccac atggagatct ccagacggac 360
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<210> 29663

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B12

<400> 29663

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tgctaggcta gctaggcggc atcgggtggac ggcggggcct tcaggccttg tgctcggcgt 180
 cgcacctctt cgcgcgcgaa accgagcaat agtgacaata aaacgcccgg gctagctgag 240
 cctgtatgtt cgacctgaat aatgaagcag ctgtgtgata tgcattgttg ttcgacacaa 300
 cgtgtacgct tgcacatcgc ttgtacttta cgattgcatt gcatgcaaca agggttttaa 360
 ggctgaatca ataaacggtg tgtaggcaaa 390

<210> 29664

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B2

<400> 29664

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 aaatgtccac tcttgaggtt aaacatgaca tctacaaaaa cccctttgtt tgggtttcct 180
 caaaatttgc actaggccaa catcatgagg ttttttattt tcagtatcct tattgtgcgg 240
 atgcaccatt tttttgttat cacaccttcc acaagctcgg caattgtctg aataatttct 300
 gtgtctaatt atggaactgt ttttcagtaa caaactgata tgattacaac aattcatcct 360
 tgggaaaatt tccctgc 377

<210> 29665

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B3

<400> 29665

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 atgatttcga ctttgtcact gcagaagatg tccagaagag caggatcttc tatatcctat 180
 ggtccccatc ctccgccaag gtgaagagca agatgcttta tgcaagctca aacaaaaaat 240
 tcaagagtgg gctcaatggc attcaagtgg aactgcaggc tactgatgca agtgaaatca 300

gccttgatga gatcaaggat cgggctcgt aggcacatg atcatgcatc atggactcgg 360
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 attgcgg 427

<210> 29666
 <211> 331
 <212> DNA
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 cctgacggag ctcaccttcc tgtgcaagtt cagcgtctct aacaatcact tgggtggggca 180
 tatcccaatc ggagggcagt tcctgacgtt cttcaactcg agctttgagg gtaatcctgc 240
 tctgtgccga tcacgtgcct gcatccacct gattttgtcc agtgcaactt ctaatgacac 300
 ggacataaag tacgagccac gtatgacgaa c 331

<210> 29667
 <211> 74
 <212> DNA
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 <223> Clone ID: LIB3067-001-Q1-K1-B5
 <400> 29667

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<210> 29668
 <211> 418
 <212> DNA
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 <223> Clone ID: LIB3067-001-Q1-K1-B6
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 gtatacagcc cagcagttga tagcaaaatc cgatcagtgg gcggtgaaaa gggttatattt 240
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 ctctttgatg acttgcacaa gacagggatc ttcacatggg attacttgca ccatctcggg 360
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<210> 29669
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-001-Q1-K1-B7
 <400> 29669

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 ctatgattgc gactttgtca ctgcagaaga tgaccataac agcatgatct tgtatctcct 180
 atgggtcccca ttcttcgccca atgttaagag caagaatctt tattcaagct caaaccaata 240
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 tcagtct 307

<210> 29670
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-H12
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 tgctgcaatg gccaatgctt atgttgaaaa acgagcctta gcttgacact gggaagctat 180
 cgagaaccag actccgatgt cggccttaga accctatgag tctgtcccag aataggccga 240
 tgcttacgct gtatattagg ctggtgaaac tgctacatgc gaggatgtac cgggtcaaata 300

tcagtatggt cacgacgagc cggaagcc

328

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<223> Clone ID: LIB3067-060-Q1-K1-H3

<400> 29671

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gaagaggaag aagatatcag atgaggaaga ccatccatgt gctattggag aagctgtaga 180
ctaaactggc tgtgactggt atatactatt aaatagtgtc gatcacatta tagattcaaa 240
cggacaacat atggaccacc tctacatgat agcacttggt aaaagagaca ctacgaacgt 300
acgttaatcc aagatggaca ttagtgaaat tatatggcac agaattcatg acctottacc 360
agctaataat gattcatcat ctagtgcagt gaatggaa 398

<210> 29672

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H4

<400> 29672

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gaacgaagat gttggcgggtg ttcagcgggc aggtggtgga ggtgccggcg gagctggtgg 180
cggcgggcag ccggacgccg tcgcccaga cgaaggcgtc gcagctgggtg gggcgcttcc 240
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cccacaccaa ccaggcgctc ctccgccccg ggtcggtcgc ggccaaggac gaggtgttct 360
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gcaagggcgc c 431

<210> 29673
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H5

<400> 29673

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gtccgagatg ccgtttgaga aggaggagct gctcaacgca gccgtccgcc gcgtggacgc  180
gctggaagcc gagctgatct ccacgaagaa ggccctttac gatgctctga tgcgacagga  240
tgagctgctc gcgtacattg acaggcagga gctgatcaag ttccgtaaaa agaagttctg  300
cttctaagat ctgaccatgg agcagctggg catgtccgga gccgttcgtg tatattgttg  360
gatcgcggtc agtacggtga atgatgtaat gtgtccatct gtacaagtgt gtaactgaac  420
gggtgtaagta tagta                                     435
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<210> 29674
 <211> 434
 <212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-H7

<400> 29674

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tggaagagg aataaagatg aggaagacca cacatgtgct gttagagaag ttctagagga  180
aactgggtgt gatgtttcta gactattaaa tctggatgat tacattgaag tttcaattgg  240
acaacaaagg gttcggctct acatcataac aggggttaaa agagacactg tgtttgcacc  300
tcaaaccaag aaggaaatta gtgaaatttc atggcacaga attgatgacc tcttaccagc  360
tagtgatgat gcagtatctc gtgcagtga tggaaatgaag ctgtacatgg ttgcgccatt  420
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<210> 29675
 <211> 428

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-H8

 <400> 29675

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 tcgtgaaact ggcctgtgat cacgcggagc gagctgtagg cgctaccag aggtgttggg 180
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 ggcatacaga gctccgaact gctatcgaa tacgggttcc accaagagac tcagctgtca 300
 gtcaactgag gctagcttgc tgcgtactag gcgaacccga tatatgtcaa tatgttcac 360
 acggccgagc tgtttgttgg ctagcaggag agtctaagac agctcgctcg ctactgcagc 420
 tctggctc 428

<210> 29676
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-H11

 <400> 29676

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 gtggccgtct atggctgctg tttcagaaat cgtgcagaca ttcaccttg cagatttctg 360
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<210> 29677
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F6

<400> 29677

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attagcgtgt ggatctgtca accccatggc gcctctgctt gattcgtgtt tcacctgtta 180
tgttctgaga ttcatgataa tgctatgaga actgaaattc cgttttcattg cttcttaaat 240
ctttgacctc tgcggttggtg cc 262

<210> 29678

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F7

<400> 29678

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tgctgttttag gcacttggct ctcggctgca gtatgttgct gttaagggtg tgaaacttct 180
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<210> 29679

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F9

<400> 29679

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cattgctgac cttacaattg gtcagtctac aggccaaatc atgacgggag ctccttgtct 180
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<210> 29680

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G1

<400> 29680

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acaaggacta cttcaacgcg ccgaactgct acccgagaaa tgacgctgac atcgtcaaga 180
tgctcaaggg cccgggtgttg gtcaacggca gttacatcgg gcgatactgc tcctacaagg 240
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<210> 29681

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G10

<400> 29681

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cagtccgaag aacgggcgtc ttctgtgat gtcttcttgt ctgccacgc ctagtttctc 120
tgtcgattcc tattcgtcgt ctcttcaggg ctgggtgctca ctgctgcgcc gttctgttaa 180
ccgaaacaag aactctgtgt attcctgtac cgagctgtgc atgttttttt ctttccatcg 240
tggagaattt aagttattat ccgtttgctg c 271

<210> 29682

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G11

<400> 29682

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<210> 29683
 <211> 433
 <212> DNA
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<210> 29684
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-G2
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 gagcaaaacta tcgatgaaaa tactgagttt ttaattctag caagtgatgg cttgtggaag 240
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<210> 29685
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G3

<400> 29685

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taatgcaagg tcatttcaac acctgagctt gaataatcac ctcatctgtg atctatatatt 180
tgtccacccc actattaatg accatacta 209

<210> 29686
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G5

<400> 29686

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aaaaaaaaaa aaaaaaaata aaaaaaatag gctttacctt ttaaaatata aaaacttact 180
aaccccttct ttcaactttt taattttcat atagattcat ctaaatctaa tcaattgacc 240
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aaaaattccc ttttctcaag ttgtctatat atcataaaga cctttaccaa ttgcttttta 360
aaaaatttta ccatacctaaa 380

<210> 29687
<211> 401
<212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-G6

<400> 29687

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tacggatacc tagatccaag aactataaaa ccctctccaa catacctcct catgggtcct 180
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<212> DNA

<213> Zea mays

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aggaaagaag cacagcaaca aatgttgaaa ttgaagtgcc tgttccttca gatgccacaa 360
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<210> 29689

<211> 293

<212> DNA

<213> Zea mays

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<400> 29689

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 ttctgctgtg gtggcttctc acgagcacca gactcatttg ttgtacctga tccctccttt 180
 tttgggagaa aggttcaacg ttttggtgca ggataaaatg ggcttgctat cctccagtgc 240
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<210> 29690
 <211> 435
 <212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-F5

<400> 29690

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 ggtggctcca ctaggatccc caggggtgcag cagctgctcc aggacttctt caacggcaag 180
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 gctatcctca gtggtgaggg caacgagaag gtgcaggacc tgcttctgct ggacgtcact 300
 cctctctctc tgggtctgga gactgccgga ggagtgatga ccgtccttat cccgaggaac 360
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 gtgttgatcc aggtg 435

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<223> Clone ID: LIB3067-060-Q1-K1-H1

<400> 29691

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 <223> Clone ID: LIB3067-060-Q1-K1-H10
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 ttcaactcgt tcttgaaga cgaagaaaga gcgctcgtag cgacaccggc ttcagatggt 180
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<210> 29693
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-D7
 <400> 29693

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 accttgtctt gtgtcctcat cgccttcaca gctactagcg acggctgatt tgggttctgt 240
 tgcagcccc tgggtctgaa tgtagccac tttctctgg gctgcactgt tttctttag 300
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393

<210> 29694

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<212> DNA

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<223> Clone ID: LIB3067-060-Q1-K1-D8

<400> 29694

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ttttcacgca ctgcttgacc cactgcaatg tcctttactt 160

<210> 29695

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D9

<400> 29695

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taccgcgagc aggccggcac catccgcaag aacgggtaca tcgtcatcaa gggacgtccc 180

tgcaagggtt ttgaggtgtc cacttccaag actgggaagc atgggcatgc caagtgccac 240

tttgttggca ttgacgtddd cactggaaag aagcttgagg atattgttcc tttcttcac 300

aactgtgatg ttcccatgt tgatcgcaat gactatcagc tgattgacat cactgaagat 360

ggatttgtga gcctdddttgac tgacagtggc aacactaagg atgacctcag gcttccgact 420

gatgaag 427

<210> 29696

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E10

<400> 29696

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 ggtgtgatag atataagata aacgagaaag gccctctctc tatcttttta 110

<210> 29697
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E11

<400> 29697

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 ttcgtgatct ttccaatctg gtaaaaccgg aggatatgat cacctcggaa catctcgtga 180
 cacttcttgc aattgttccc aagtactccc aaaaagactg gttgtcaagc tatgagaaaa 240
 ttgacacatt cgtgggtacct aggtcatcta aaaagctcta tgaagacaat gaatatgctc 300
 tctacactgt aacactgttt gctaagggtg ttgacaattt taagggtccgt gctcgcgaga 360
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 agatg 425

<210> 29698
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E12

<400> 29698

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 acgagctggt aattctcaaa tctcacggtc tgagcgggtc tgttcgccca ttggcaacac 180
 tttcagggtt agtcagggtg caataagctg tgtcctttgg gagcacaggt ctgtacagga 240
 tacttgtggt cgggatcagt tctaacgcta cctgaattca tgggtggaaaa aaaaaaaaaa 300
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<210> 29699
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 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-E2

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 acagagccag actacaaggt cgcctgagac cgacattaac ccatggcgca caatccggag 180
 gacgcgacca agaccaagcc ctcaaaccga ttgccataga cgaaaccaa caatacctag 240
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<210> 29700
 <211> 432
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-E3

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 aaccatgaca ccagaccata tgtatatgaa aggttcccc ggtacactct ttattcatcc 180
 ttgaacacaa aatctagacg cgcctctca ccatcgggtg taaaaccaat gagccagaca 240
 tgggtctcaca atgccaaacta aaaatcacia tatctgagta cagttatgat tatcatattc 300
 tattagccca tatttccaag aagtcgtctc actgcagcat gaacatttcc agcggtagcg 360
 gccaaagctc ggatgttctc ttgtgtgtca aagaaaccca tttcttgag ctgagctaatt 420
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<210> 29701
 <211> 255
 <212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-E5

<400> 29701

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catgtcacca cacaatatag atattaaacg ttcttcacca cacactgtac tcattctttt 180
acacaaaact tagccgcgt gctcttacca tcattgttta aaccaacag ccagatattg 240
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<210> 29702

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E6

<400> 29702

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atttctattt tacattattc tcatacttct tttttataat accttactat taatgattta 180
tacatttctc taatgtatat tgttgcttat tatcattttt atctatatta tatctcattc 240
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<210> 29703

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E7

<400> 29703

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actgggtcag atctcatgga aatgtttgct ggtgttgac ctttcacggt tctgcacttg 180
ttacaagaag catggcaggg ggcttctagt atggtgttca attaccaaatt cgaagctatt 240
ggcgcgtgca agatgacttc atgagatctc acggtcaaatt gatca 285

<210> 29704
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-E8

 <400> 29704

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agcaaagtct gatgtatatt cttttggggg tgttcttttg gagctgatca caggaagaaa  180
acctgttgat gcttctcagc cattgggaga tgaaagtctg gttgaatggg tgagttcatc  240
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gcgtaacttt tctgtttttt aaccataacc agtaaccata gtcatgagat tgagatccac  360
taataaatga catgattatt tcgtgatata ccaatggatg tgtctagact tcttcaagct  420
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<210> 29705
 <211> 426
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-E9

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aggagtgcac agacttgggc gtgagaaaaat tcaatgtgaa cactgagggt cggaacagct  180
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gagcgaagta cttgcgttgc gccggcaaca tgcagtacaa gaccgactgc atcatcgggt  360
tcgtgatgct gctgctactg tgcagttgct tacggatata gctcattgcg ttgaacagct  420
gaagtg                                     426
  
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 <211> 387
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-F1

 <400> 29706

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 cgggtgaaaa tatcgtattc ttttataaga tgaaagggtga ctactaccgt tacttggctg 300
 aatctagcac ttgaactgaa aagaaagctg cctctgatca gtcacttatg gcctatcagc 360
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 <211> 231
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 <223> Clone ID: LIB3067-060-Q1-K1-F10

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 tgttgcagcg ttgttgttta gaatgaccta tatttgactg gtattctggt acgggtggctt 180
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<210> 29708
 <211> 314
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-F12

 <400> 29708

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tcgccacaac cgtaaaggcg gccaacataa aggccaaagtc caactggccg gccttttttgg 180
ccaagttcct gaaaaacccc aacgtcaagg acctaatect ttccgtggaa cctgggtgccg 240
aacctgttca agtggttgtt gccgaacctg ctggggggggc tccggttgtt gttgccccgg 300
tttgaaggg aaaa 314

<210> 29709
<211> 432
<212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-F3
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tgacccgtgc tactcttcga acgcggaaaa gtacttcaac gatgcagggtg tgcagacggc 300
attccatgcg aatgccagtg gagctcgga atgggaagtt tgcagtgatt caatthtgag 360
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<210> 29710
<211> 435
<212> DNA
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<210> 29711
 <211> 317
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-B8
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 tataccaata catctatact accacccatg atacctattc aggagacaat agcatcaaca 240
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<210> 29712
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 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-B9
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<210> 29713
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-C10
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<210> 29714
 <211> 346
 <212> DNA
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 <223> Clone ID: LIB3067-060-Q1-K1-C11
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 catagacaaa acatgatattg aagaatcttg ataggttttg ttgttccaac cgaggggatga 300
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<210> 29715
 <211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-060-Q1-K1-C12
 <400> 29715

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<210> 29716
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C3

<400> 29716

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cgactatgca tgatgtgaac aacatcgagg aagagatgcg catgaagcaa gctcacgctg  180
cccaagaggc gtacgaggag gacgacgaga tgccgggcgg agcccagaga gtgcagtgcg  240
cgcaacagta agcagactat catcaaggca attgtgaggg gtggtgccct taaagcatgg  300
gagtgatctc tgtgtttgct gtcgtcgagc tgtgaaaaat gaagctgaat cgacctctca  360
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<210> 29717
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 <212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-C4

<400> 29717

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acacggtggc gctgaggctg gcgccgtgcg cgtcggcggc tgatgacccc ggatccgcgc  180
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gcgccgtaat gctgtccaac accgacagga gcgcctggat caaagcccat gtccacatca  300
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<210> 29718
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C5

<400> 29718

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ttaactttga ggaaagcagt atccagtggg catcccgtg ggacacctac ctccgcacgc 180
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agccttctgc caatgccgac ctgctgtgcg tgtacgtggg cacaggtgta cagttctttg 420
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<210> 29719

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C6

<400> 29719

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ccactggcgc tccttctctg tgaagctcgg atccgagaac ctcaaagggt ccaagaacga 240
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ctgcctctac attgttggca aggatgaata tgatgagctt gctttggctg aggtgatctt 360
tgcaattaca tcagcagtca aggatgtttg tgcgaaacct cctaccgagc gcctctttct 420
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<210> 29720

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C7

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gacttccacc aaggccttca tccaagctga cagacatgga gatagatgaa tgcgaggaga 120

cgactatgca tgatgtgaac aacatcgagg aagagatgcg caggaagcaa gctcacgctg 180

cccaggaggc gtacgaggag gacgacgaga tgccgggcgg agcccagaga gtgcagtgcg 240

cgcaacagta agcagactat catcaaggca attgggaggg gtggtgccct taaagcatgg 300

gagtgatctc tggttttgct gtcgccgagc tgggaaatag gaagctgaat cgacctcgca 360

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accttttaac ttct 434

<210> 29721

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C8

<400> 29721

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ccggacgagc tgtaccgccc catcatgaat gtcgggcgcc caagcatccc gttatcccc 180

gtcctggagc aatggaatca agaaggccat accgccaaga agttcgtcat gcacgccatc 240

gtcaagaagc tcgtcggcct ccgccgcttc gccacgcac tcgagctgtc gttctggatg 300

accgaccgca tgcacctcca cctttcggtc ggtgacgtcg cgtaccggct ggacctaatc 360

agcaagggtc acggccttga gaaagccgtc gagtactacg gcatggtacc gaagcagctg 420

aagaagcc 428

<210> 29722

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C9

<400> 29722

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aagagtgcct tcagctagac cagatatggt agctgatcca ctaatgtcac accaaaacgg 180
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acaaattcta c 251

<210> 29723
<211> 428
<212> DNA
<213> Zea mays

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<400> 29723

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cgttctggag tacctcgccg tcgaggttct ggagttggca gggaacgcgg cgaaagacaa 240
caagaagacg cgcacatcatc cgcgccacgt gtcctggcg atccgcaacg acgaggagct 300
cgggaagctg ctggccggcg tcaccatcgc gcacggtggc gttctcccca acattcactc 360
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gtcccca 428

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<211> 424
<212> DNA
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<223> Clone ID: LIB3067-060-Q1-K1-D11

<400> 29724

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tgcgcattta ctctgctgtc tatctgctgc tggtttcctt gtgcagttaa accggtaaag 180
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 <212> DNA
 <213> Zea mays

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<210> 29726
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D2

<400> 29726

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 gcgacaacac cggagtctac gagatcctct cgttgcccca gtacgcgttc caggacgatc 240
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<210> 29727
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B6

<400> 29727

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gtgaccggcg ggaggaacac cgggcgtgta ggagtgatca agaacaggga gaagcacaag 240
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ggcaacgtgt tcaccatctg caagggcaac aagccttggg tgagcctgac caaaggcctc 360
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<210> 29728
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D4

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gtcgccacgc gcccgaagac caagggcaag gacggggacg gaggcaacgg aggggatgac 180
tccgagcagt ccaagctgag ggcggggctc aactccgcca tcatcacga gaagcccaac 240
attaagtgga acgacgttgc cggcctcgag agcgccaagc aggcactgca ggaggccgtt 300
atattgcccg tcaagttccc gcagttcttc acgggcaagc ggaggccttg gagggcgttt 360
cttttgtatg gccccccagg aacaggaaag tcttatttgg caaaagctgt tgcaaccgag 420
gctgattcaa cgtttttcag tata 444

<210> 29729
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D5

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atacaactta tgcattgatc gaacaacat 149

<210> 29730
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-H8

 <400> 29730

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 cccctttttt gttgaaattg tcgtctggta gtcagtaaac ccgaataaaa aatgtatata 180
 tggtttttga atttgggaag tgaacaaaaa ccttttgttc aaaaaaaaaa acacctaaac 240
 aatt 244

<210> 29731
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-059-Q1-K1-H9

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 atcctcttcc ggggaactga tatcaaggat ttgcaagtta agtcatcacc accacagccg 180
 ccaccaccac aagcagcttc cctgcacaat gatcctgcc aatacagtc acattattct 240
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 agtcccagg cagttcaata tgggcttcag aggccaacct ttcagagtaa ccttgctctc 360
 taccaaccag ggaatactcc gtggggctct tcagtggcac ctccagcagg aaatgctcca 420
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<210> 29732
 <211> 440
 <212> DNA
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 <223> unsure at all n locations

<223> Clone ID: LIB3067-060-Q1-K1-A1

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cctctatccg gactcgttcc cgcttgagac cccgccctct aaggaggagg acgcggcagc 180
gcgacagact gatgaggcgg tggcaccggc tgtccccttg agggaggaga cggagacaga 240
gagggaggcg tggcgactgc tgcggagggc ggtcgtcagc tactgcggcg agcccgtggg 300
gacggtggca gcggagaacc ccgagtgcac ggagatgctc aactacgacc aggtcttcat 360
cagggacttc gtgccctncc tgctcgcctt tctcatgcgc ggtgagaccg agatcgttcc 420
gaaccttctt ctttacaccc 440

<210> 29733

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A10

<400> 29733

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agaagaaaga aaaggtgctg gagaaaaaag caaacgctga gcttgagaga gccaaaggag 300
tctcgaaagc aaagaataaa agagcggcta tccaatcctt gaagaggaaa aaactttatg 360
agcaacaaat tgagcagctt ggaaattttc agttgagaat ccatgatcag atgatcatgt 420
tagaagca 428

<210> 29734

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A11

<400> 29734

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acctgcctgt tgaggctctt ctaaagaaaag ctgttgtggg gcttgatgta gaagaaaatg 240
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actaccatgc ttaatttctg atcacttcaa tatgaggggac tttacctttt aatatttcat 360
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<210> 29735

<211> 373

<212> DNA

<213> Zea mays

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<400> 29735

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agcacatata taattccgct tccgcatacc gcaggaaact atatgcatgc atcgacatta 240
tttggggggc atcggaccgg agcatctcat atccattcag accgaccgtg ctcgttaggg 300
ttcgccatgt ccttgttcag ctggtccatg taagcctcct gatggtaccg cgtcttcaag 360
gaaagatcat tgc 373

<210> 29736

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A3

<400> 29736

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cgcgctcctc tccgtgggtca gcgtcacctc tggcgctctc gccgagcaac aggtcaagcg 180
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 ggccaaggcc acctggtacg gcgccccac cggcgcgggc cctgtcgaca acagtagtgc 300
 ataccggttc aagggcacca accagtaccg gttctagtcc atgacgtgct gtggctacta 360
 gccca 365

<210> 29737
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A4

<400> 29737

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 tccacctaac ttcttacgct aaccttttca atcagctatt taacgcatcc cccaggacac 180
 tccccaatc actccccctt acgcataccc aaagacacta tatccatgca tcgacattat 240
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 cttcataccc tttaacaact gggccatata cgcctcctca tggt 344

<210> 29738
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A6

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 agcacatata tagttccgct tccgcatacc gcaggaaact atatgcatgc atcgacatta 240
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gaaggatcat tgccatggta ctgaaggagt ccctggaacg gaccaagaac acta 414

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<212> DNA

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<223> Clone ID: LIB3067-060-Q1-K1-A7

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tgctgtcagt ctctggagca tttaggtggt ctggatcaat ggaaggggtg tgtcctagcc 180

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acgcagagct ctctgctccc ggctgtctt ctgccgtccc ggccgtttaa ttactagtg 360

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actatattgg gtgtaaaacc 440

<210> 29740

<211> 432

<212> DNA

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<223> Clone ID: LIB3067-060-Q1-K1-A8

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gcggtggcgg cggcggatct ggcggcgggc cgacgagcgg gcgttgcccc gtggacgcgc 120

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cgccaggac gccgtgctgc acgtgatcc aggggctggc ggacctggag gcggcggtgt 240

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tatcacacgc ccatcgatcg atcgatctgg atgctaaata atttctccaa gctgctagta 420

tacgtacgta cg 432

<210> 29741
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A9

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agatatat 68

<210> 29742
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B1

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ttttcggagt ccatggctgc tggagcaccg ggatctt 337

<210> 29743
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B10

<400> 29743

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<210> 29744

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B11

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<210> 29745

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B2

<400> 29745

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accaatggcg tgat

434

<210> 29746

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B3

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taaaaaatct tttttttttt ggaaattccc aaaaaaaaaa aaaatttaaa aatttttgca 180

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cttggctttt taaaaaaaaa agggggggcc tttttaaaga ttccaatttt tctaccctt 300

cttttgaaat aataactttt tttttagggc acctaaaatt aatttacttg tgccgttttt 360

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<210> 29747

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-059-Q1-K1-G4

<400> 29747

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atgtatcatg gaaacttagg acagaatcgc ctcttcaacc tgttaggtgt cttctaccgg 360

cacaatatat tttttgcttg gaatatgtaa tgatgttacg gttcaacgtt tattctaccc 420

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 <211> 383
 <212> DNA
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<223> unsure at all n locations
 <223> Clone ID: LIB3067-059-Q1-K1-G5

<400> 29748

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caatgtttcg gtcctttggg actcgaagg gtcggaagaa aggatgtgaa tggcatgatt 180
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ggatttgcaa ggttaagtca tcaaccaccg accgcccga acctcaagca agcttcctct 300
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gtcaaaatgt gtccttcgcg tgg 383
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<210> 29749
 <211> 382
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<223> Clone ID: LIB3067-059-Q1-K1-G7

<400> 29749

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ctcgacaagc ttggcggagc ttttggtccc aagacatatt ctggacctaa caagtgcagg 180
gagtgccttc ctatgatcct catcatcagg aacaggctca agtatgctct gaactaccta 240
gaggtcattt ctatcctgat gcaaccccat gtactcagct gatggcaagg tcaggactga 300
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caggtgctt tatgacacca ag 382
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<210> 29750
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G8

<400> 29750

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agcagcagat gctgacatcc gcataaaaga agccatgaac cgacttgagt ctgtcaccaa 180
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catggaagat gataacgttg acaaagcttg cgtaagcgat ccggattcag gaccggttac 360
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<210> 29751

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G9

<400> 29751

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cactaaccaa cctaggtttc acaagtcacg ccattgatgg ttgcaagatg accaatttgc 180
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tttgtaacaa gtttttgttt actcgtcgcc tacttttgct tcatagtgtt ctgggcatca 360
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<210> 29752

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H1

<400> 29752

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caatgggtggc tcaaatgctt ttccacgtac tgtatctcta tcatctgctg gtaattacaa 120
cattaaccag tcgcttataa ggtcttccgt tggttgcact gccaatgggtg agcaaagtgt 180
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gttgacaag cagtgggtgca cagcatgtag gtactgatca caagcacaca ggtgtaactt 300
taccagatgt tatgtctgaa ccacttgtat atgcatcaat ggttcaacgt ttcagtcgca 360
ctgattatc gaaatgtctc aatgcacgag aaatgctgtt agtgaatgga ctgaatactg 420
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<210> 29753

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H10

<400> 29753

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cacgccaagc gcgtcactat catgccaag gacatccagc tcgcgcggcg catcaggggc 180
gagagggtt gagcgccgt cgtgctgctc gtcgtttag tagttactaga agtagatggt 240
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<210> 29754

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H11

<400> 29754

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tgcgttcacc cttggagtga agcagatgat ttgctgctgc aacaagatgg atgcaaccac 360
tcccaaatac tccaaggcac gttatgaaga gattgtgaag gaagtctcat cctacctcaa 420
gaaa 424

<210> 29755

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H12

<400> 29755

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ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct gccccgccg aggccgaggc 240
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gcaggcagcc gccgagccgg aggccgctgc tcctgctggt gccgaggagc ccgccgcggc 360
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<210> 29756

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H2

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gaagcacgag ctcatgtaca tgtggataga cctgctatcc aagtgcgacg cgtcgttaga 180
gatgaagatt gcaacctgac tcaacatgaa gacaaacatg tgatgcttgt gctgaataat 240

aatgaaaaca cgcacatgcatg tcacgctcag gaacaagaga aataatacaa gaccagcacg 300
catggtcata ctctatatta tagatgggtca aaaagcacga agaccgtgag ccctgcacga 360
agccccgattt ttggggcccg tccgagcacg gcacggtaga atacgaggac aggctggaac 420
aggaaact 428

<210> 29757
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H3

<400> 29757

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atgttctact tggacaaaag atctaagaag gtcctgtttt ctacgtttat tatcaaggac 180
tcgctaaaagt tgaaaaccag cgatgctgaa acgggtgtca acctacatgc tgctagcgaa 240
aagtttgctg aactgattcc tctcctcgag tcaagcgctg acttgcatgc tctcaaagag 300
atgctggaag atgagtacct tgagatacca ggagacaccg tgaagcggtg ttttgcaggg 360
cttatactcc gagatataaa ggagttttgg cgggttgccg tgcttctatc cattctcttt 420
taccgagaaa c 431

<210> 29758
<211> 333
<212> DNA
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<223> Clone ID: LIB3067-059-Q1-K1-H4

<400> 29758

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cttttttgtt gagattgtcg tctggtagtc agtaaaccgg aataaaaaat gtatatattg 180
ttttggaatt tgggaagtga acaaaaacct tttgttcaaa aaaataacat accaaaccaa 240
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333

<210> 29759

<211> 432

<212> DNA

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acgcctttta cggcgcctac cacagcaacc ccgtcaacgt gggcatccac gagctcttcg 180

tgtggcccat ctctctcacc gcgctcatgc tcctccacct caccgcccc tccacgcacg 240

ccgtcggcat cagcgccgcg gtctacgcgg cctactactt tcttctcgac cgccgcgcgg 300

gcgcgctcgc cgtcctgctc tgctacctct gctgggcgcg cagcggcgcc ctctctgccc 360

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tgcaattcat tg 432

<210> 29760

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H6

<400> 29760

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ctgctctctg ctgctgctgc gtgctggagg aatgctgcgg ctgcttctga gacgtgagat 120

gtccgggaat ccgatcgcaa gttatcgctg ctagcattcg ggagcacccc agttattatc 180

atataatagt aactgtgctt gtaaataatc tggagcagca gtgttcatga gctcccagcc 240

ccgcatttat attctcataa tttgtagtac gttctatgat ttatccgaaa ataaaggact 300

ctatatatgg gattctaaat aaggtatttg cat 333

<210> 29761

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G2

<400> 29761

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cctcgacctg agtgactgca cagacaggat catcgccgag tacatctggg ttggaggatc 120

cggcatagac ctgaggagca aagcaaggac ggtgaaaggc cccatcacccg atccgagcca 180

gctgccaaaa tggaactacg acggctccag caccgggcag gctcccggag aggacagcga 240

agtcacctc taccctcaag ccatgttcaa ggaccggtc aggaagggtta acaacatcct 300

tgtgatgtgt gactgctaca cgccacaagg cgagccaatc cccagtaaca agaggtacaa 360

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<210> 29762

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E12

<400> 29762

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atcccagtgt tttagtccgg tttagcctta gccatgaatg taaaaatgtt gtaaaattgt 120

cagcctgcct tacaactcct tccatcaagg caaaacgagt gcaatttctt cacgac 176

<210> 29763

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E3

<400> 29763

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tgctgtgttc ctgctagtgg gcaagacctc ggcgttgacc atgaacgtcg cgggagtagt 240

caaggattgg ctgttgattg cattctcgtg gtcggttate cgggacaccg tcaccccgat 300
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 atcgctcttg 430

<210> 29764
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E4

<400> 29764

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 tctacaacaa cactaaac 78

<210> 29765
 <211> 367
 <212> DNA
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<223> Clone ID: LIB3067-059-Q1-K1-E5

<400> 29765

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 cattgcctat acttgctaata agaaatgaac gggcatataa tacctgatgc gacatccttg 180
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 aaggcaatga ttgaacatgg agttgtacca gagatagatc actacttacg tatagtgcac 300
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<210> 29766
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E7

<400> 29766

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ggtacgagga gcaaagctat cgaaggtggt tggccgagcg tgaggagggg agagagtaaa 120

aatagttgtc aatggtgggg aggagacaga aaggagtttg gtgaccaatt ttagcacagt 180

ttaacatctt tgggtgaagct aaagtgccga tgggtactaa acttttagcac aacactttta 240

gtcgccctgt tgtttcttta atagctaaac tttagtaaaa atgtttggtg ctaaacttta 300

gcaaagggga ataaatgggt cttaggctga tgatttagct gggtgaaagc tgaagacaat 360

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<210> 29767

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E9

<400> 29767

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gttgaaggga tctgttcctc tgagatgtat gagagtaatt tgtagttata caagattgca 120

atgacatgct ggaagattaa catagacatg tacggatata acgaaagatt aacatgtgct 180

ggaagcagtt tcatacatc ttgtgttgca gctgtattta agagaatgag agatacaaaa 240

tcttttgagc taaattccat gacacaagta acataagccc cccggaacct aaaactttac 300

ctggattagg gttcttcccc ttttaataaaa agatggtcac ctttttgaac ttgcc 355

<210> 29768

<211> 325

<212> DNA

<213> Zea mays

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<400> 29768

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aaaggtagcc aaggataagc atctgatggt taagctgcct gtcgggatcc ctactaatgt 120

tctccacatg accacccgca aatctcgaag cagtttatga acaaacacat gggaccggtg 180

cgagttacgt atacataaga cggatgatcga cctgatcagc taccaagaca attttaagca 240
gatcagctct attaccattg acccacttga agaacaaaac gtgactgtca actacatgta 300
atgacgatct atatatctt accgc 325

<210> 29769
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F10

<400> 29769

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ttgacggaca tatcgttgta ttgcaaaatc ttttagagaa ctctcgcata ggggtgtgaag 360
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<210> 29770
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F11

<400> 29770

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aaaaatagat tatataaagt gagaataaaa aaataaaaagg ggggccggct tttagaacc 180
ccaatgtttt ttaaatatgt tgggattgggt aatttttttt tttt 224

<210> 29771
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F2

<400> 29771

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atactctgac cctgctattg ttgataaagt gatatatgac aatcattggt atcaatggat 180
agcatgttta aatttagaga tccataccta aaatgtttgg tgcaatttat ctttaatgat 240
t 241

<210> 29772

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F3

<400> 29772

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acctcaatcc acaccaaca ataactgctc aaaaaaaaaac ttataaacat taacactaac 180
tcacc 185

<210> 29773

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F4

<400> 29773

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tgggcggtat gggaatggat gatttcgaag atgagagtg

399

<210> 29774

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F5

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gagctgtcct tgatggagaa gatgctgcat gtattgagct gatgtttag ccaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaag tgaaaaaaca aaaaaaaagc cacattaaat aaatctatta ataa 234

<210> 29775

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F6

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cggcggcggc ggcggcggcg gaggcgccag cggcaatccg gggaagatct tcgtcggagg 180

gctcccgcg gacaccacgg atgctacatt tgtgaggcat tttggacagt atggagaaat 240

agttgattcg gtgataatga aggataggca cacatctcag ccacgggggt ttggcttcat 300

tacatactct gaccctgctg ttgttgataa agtgatagag gacaatcatg ttatcaatgg 360

aaagcaagtt gaaattaaga gaaccatacc aaaaggttcg gggcaatcta gctctaagga 420

tttcaagact aaaaagatat ttgttg 446

<210> 29776

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F8

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<210> 29777

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F9

<400> 29777

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atgaaagtga actttactga taccgtactg agccatcaac tgggtgggggt aattagctag 180
ctagctaact gctgggggta tggttaatgc atgaactgct attagttacc agatgtaagt 240
gtaaactctgg agtcctgctc ttgctactgt atgtgaactg actgtttcac tccactacta 300
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<210> 29778

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E11

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tctggtctat ctcatgaact ctctaaagaa tgcataatac ttttgctcga gaaaatttaa 180
tgtgaacact catgttctta acaactacct ggctgttcct cataaagccc caaaaagact 240
ttattcaagt gatggcgtct gctaaatatg catttaa 277

<210> 29779
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G1

<400> 29779

acagaacttt cacctccaca caattttatg tacagctacc atcatttatg cttcagtatg 60
aagtccaata atcaaaagcc atctgcttct tattcagctt atcacagtca agtgatgtat 120
ccatgactcc tttaacataa ttcaaatacc ccaaaacatt gcaaatttac tctggatggt 180
cgttgttagc taaaccgctt accggtttta acctctgacc caatgactag ctgatcatta 240
tatgctttac ctcaattcca aactacagc ttgaactgca ctgtgccagg aatacctgtc 300
caattgtttt tatcgagata atctgcaatt taacctatca tatgcaaatt gttcctgtag 360
acacttatgt cattcatttc tcatgcaaaa aaatattttg gcactaat 408

<210> 29780
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G10

<400> 29780

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gcagctccta gaaccggcgt attcctgtga agtattgttg tctggccacg cctagtttct 120
atgtcgattc ctattaggcg gctcttcatg gctggtgctc ac 162

<210> 29781
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G11

<400> 29781

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tacctgcccc cgtccccggc gtccaacctt cccgtgctgt actggctctc gggctctcacc 120

tgcaccgacg agaatttcat cataaagtcc ggcgcccagc gcgcccacgc tgcccacggc 180
atcgccctcg tggcacctga cacctcccca cgtgggtaaa tattgaagga gagtcagaca 240
gctatgattt tgggtgtgggt gccgggtttt atatgaatgc cacaaatgaa aagtggaaaa 300
actggcgcat gtatgactac attgtgaagg gaccttccaa aagttttaag ggataacttt 360
gaacaactaa acccgtaaca ggcttaaatt ttg 393

<210> 29782

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C2

<400> 29782

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gcggtccgac tacggctacc ccgcggaggc catgggccta aagtacatcc agtacgagat 120
cgggtgtcgcc gagagcacgc ttaaggacaa gttccccagc ggtctcaaga tcttgaccaa 180
ctcgactgcg ctacacaaga tggggttcat gttcatcacg catacactca tggaccgaca 240
ggacatcagc gtcgacgtag gccgattcaa ggaggtgctg cttcaggtgc tcaacatggc 300
tcgcacagta ttacagctgc atgctcactg ctt 333

<210> 29783

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C3

<400> 29783

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ggatgaaaat caatggcagc tttctgattt ggactgccaa gctctgggtg ctggcaagag 120
ccatatacaa cgcggttatg ggcacattcg ggtatgtggc tcccggtatg ccaatacagg 180
tctgttaaat gagaagagcg atgtctacag tcttgggggtg ctactactgg aagcagcgac 240
tgctagggat ccagttgact atggtcggcc tgctaataag gttcatcttg tggagtggct 300
gaaaatgatg gttggcacta g 321

<210> 29784
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C5

<400> 29784

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 gaggttgctt tcatttgcca ccttcagaca ctggtttagc atcatgaagg tgaatgggag 180
 tggcataact tcaatagtct gaccagctc ctgagcacct gtcatagttt tacctctcac 240
 ttcatlgaca ccctgaagct tcaggctgga gtatctttgc agtcagaggc aattgtcaaa 300
 ggagtgccct atggaactga aggctctaac agttttgtgc aatggctta 349

<210> 29785
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C6

<400> 29785

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 aacttctata agcacgcaa tgggctctc aagaatgcgt acgaactctt cgtcctctgc 180
 gactcttaag ttgccctcat catcttctct agccgtgggc gcctctacga gtattccaac 240
 aacagtgtca aggctactgt tgagaggtac aagaaggcac acaccgttgg ctcttcctct 300
 gggccccgc tcctagagca caatgccag caattctacc agcaagaatt atcaaaactg 360
 cgcaaccaga tccagatgct gcaaaacact aacaggcact 400

<210> 29786
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C7

<400> 29786

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gaattatgcc tacaacatga ggaacaccat caaggatgac aagatcgctt ccaagctccc 120

ggctgaggac aagaagaaga tcgaagatgc cgttgacggc gccatcagct ggctggacag 180

caaccagctg gctgaagtgg aggagttcga agacaagatg aaggagcttg aggggatctg 240

caaccccatc atcgcggaaga tgtaccaagg cgagggcgcg gccatgggag ctgctgctgg 300

catggatgaa gatgccccgt ctggtgggag cgggtgctggt cccaagatcg aagaagtgga 360

ttaaattggt tagtggtcga gggttggttt ggtg 394

<210> 29787

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C8

<400> 29787

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gcgcgcgaga aggccttaca ggatcttacc gaagaattgg caaagggtga tgggaagctg 120

aagctcacag agtctctcct tgaaagcaaa aaccttgaag caaagaaaat caacgtctaa 180

aaaaaagcag cgcttgccgc acagtttgca gctgaggcaa cactacgaaa ggttcatgcg 240

gcacataagg atgatgacat gcctactatt gagggcatac ttgcaccact ggaagctgat 300

ctgaaactgg tccgtcaaga gattgcaaaa ttacaagatg acaacagggc attggatcgt 360

cttacaaag 369

<210> 29788

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D1

<400> 29788

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tgccgatgtg cctctgcctg ctatcagcgg cagcaaaaat tgcaagctct cgagacttat 120

gtcccttttg ggcaccatta aactgattat tctaaagtct ggccacatta ttttaaaaga 180
cagaaaccaa ctagctgaag aagaagagat caaagacaag atgaaagaac ttgaaaggga 240
tctgcaaccc catcatcgcg aaaatgtacc aaaacaaggg gcgccgtcat aggcgctcct 300
actttcatgc atcatgatgc cccgtctgat gtgagctatg ctggtaccaa aatccaatga 360
agtggctcta attttacaac gttcgaactt ggaaaacccg aggtgtcccc aaccta 416

<210> 29789
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D12

<400> 29789

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ggcaatcagt cacaatacat atacttattt aatgataggt ttatgcgaag aaaggaacat 120
atcacggttt tggtaatgtc ggaatcttgc acaaagtgc agatggtcac ctgatagcta 180
ggatatgatg ggccctgatca gttacttgtg caaatggtga gtgattgagg aagccctaaa 240
acttatgaac tctctatttg actgctacca tgatctgttt cttagtgcac attgtgcact 300
tctcaaacag ttgcgcagga caggtcatac cagcattgga tgctcactgt tggaggatgt 360
caaagaacag ggtgtggctg ttcatcgatc attattcttg tatgtgatgg atggctttct 420
aaagg 425

<210> 29790
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D4

<400> 29790

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ttctatatac ccacttttaa ttttcacctc acaaatactc tctgtgtctg ctattctttc 180
aaaaataact ccacatTTTT ataccacaca accccaaatt caactcaaaa tgtacacata 240

tcaaatatct tattcacaac tctatataaa cacacattct acaatatata tacactcatt 300
ccagtttcat cccaa 315

<210> 29791
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-059-Q1-K1-D5

<400> 29791

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tcgtcctggc gatgccgtgc gtcgccaag cggcggcggc gtcatcagg ggcgggacca 120
cgtgcccct ggtggtcggg atcgtgctca ccgccgtcct gacgtcggtc ctggtggccc 180
tgctgctgtt cctgtctctg ggcacacca tgggcaagct gctgcagtac agggaggtgc 240
accatgagga ggggcaggag gagtaccact ggtaccagga tctggcccgc cgcgccgnct 300
gcctgcccag gcttggcccgc ctcttcgagg acctgcgcgg ccgcccgaag tacatgcgtg 360
gcggtggagg cggcaagcgc cgcgccgaag gcggcggacc agagcggcgg gtcatcgcgt 420
cggaggacga gaacgagggg tcgagggcgc ccttgg 456

<210> 29792
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D6

<400> 29792

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gtaacattgg tttggtttta actttgcacg gtttggccca caacaaatgc catgggtttt 120
ctatttgccc agagaaaact ttcagcgcac aagtactctt ggtttctgct ttgcttccaa 180
ttagaactgc agtggttgag acgacagtac cataatttca actaaagtgt acatcttcaa 240
tcttctttgc aaggctatat ataaacacat gtaccatcat atatagattc ggttggtggt 300
tgcatccaaa gtagcacttc tcatcctatg agtagtattc cggtgtacaa ccaacaggat 360
tggttcacct tggaaattat ctcgagacaa tttagaattg tgttgcacta tagttattac 420

atatgttgct ttaaaattac aagc

444

<210> 29793

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-059-Q1-K1-D7

<400> 29793

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cgagcgagag accactgaaa gctgagtggg gacgctgagg tggcgaatca aaacccccaaa 120

ccctccatct ggtagtgca actatttggg tcggtggatg gcgtctgcag tttgctcaac 180

ttatttacag ggttttgggt catgcctttt gtgatgtata gctgaagtat tttcccgggt 240

tggtttgttt cccagacccc cagacttacc cttttccttt ttcttnttct ctccttcttc 300

ttcttttctt ttttttcttc ttttttcttt ttttttcttt ttttttcttc tctttttcat 360

tttttttttt ttttttcttt ttcttccctt tttctttttt ttttttcttc tcctttcttt 420

ttttttcttt tt 432

<210> 29794

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D8

<400> 29794

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attgttattt taccatttta tttaatcatt ttttaagttca ttttgctgta cataataaaa 120

ttgaaatctt ttataaatca atgaacaatt ttaaacaata tgattattat aattcttttt 180

aattatttta ccaaagatat tctttttata atctactttt t 221

<210> 29795

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D9

<400> 29795

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tggcgctcgcg gcggcctact cgtgctcctc ctccctcgcc gcgccaccga gggccgccgc 120
cgccgcggcg agggcgccga gccgcgcgca cgtcgcggcg gccgggatgt cctccagggc 180
gtcctccttc gtcggtttct gctgatgcga cctttctgcg gtggccgcta ttgttgcttg 240
tctgtccatt aagactggct tccatgaaat ttgatagggt ctggtgttcc aaaccgaagg 300
atgaatcatt gtttgtcc 318

<210> 29796

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E1

<400> 29796

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cagatgcgaa ggcctgctct ttcggaactg agtgatctct ggatatgcac agcatggcct 120
gacggaacat tgcctatact tgccaagaga aatgaacggg catataagcc ctgatgcgac 180
atccatgcta ggtgtgctct cataatgccg ggatgcattc atcgaggcag aggtcccacg 240
gtgcttcaag gcaatgactg aacatggagt agtaccagag atagatcact acttacgtat 300
ggtgcatcat ctagggcatg catggctgct agatgaagca cgcgatctta ttcagacgat 360
accgatgcct tcaa 374

<210> 29797

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E10

<400> 29797

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agtcgtcgag gaggagcaag aagggcgcgc acgcaagcag gcaagcaaga agagagccga 120

tcgaccgaga gctagcacgc gatggcgagg tcttccaaga tgatggtggc ggcagctctg 180
 ctggccttgg ccctggccgt gtcgaccgcc gaggcgagga acatcaagac cacgacgacg 240
 gagaagaagg acgacgcggg ggtgcagccg cagaccttcc cgcccttcga ccgcctcggc 300
 ggcggcgcgt ccccggcgtt cggcggcctc cccggcggca gcattcccgg gttcagcatg 360
 cccggcagcg gcagcagcct acccggggtt agcttgcccg gcagcggcag catgcccctc 420

<210> 29798

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C12

<400> 29798

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 atcctcatgg acgatgaaga tacttatcaa agtactggcg tatgcaaatt acgtaccata 120
 tgcgcataac ttaaagtccg cactgacaag ccagagtccc tactgccaca tgatgcccgg 180
 gatctgaaac tctatcacca gcacttcggc aaaatgttga tcgattgact aaatgctctg 240
 tccaaagaac tcactatttg actgctacga tcatctgggc accagcgcat attcagcact 300
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<210> 29799

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A6

<400> 29799

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 gcaatggatt cgactcctcg gttatgtcta cagcagcgac aaccggaagc tctggaagca 180
 ccgtgactga ccttgggggt gtaggcagag gcgtcaaagc agctagcatc aagccgatct 240
 ctgctgaacc tgctgctaat acctgcactt gattcaccat ctcaacaagg tgacagcagc 300
 atcaactctg aggttgttcc tgcaacgcag actggagacg agtcagtatc taagtaaatt 360

acaatttcat tagccctact gtaatgttaa cttgctggaa catattaact gctatgt 417

<210> 29800

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A7

<400> 29800

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gacgttcctt cccaactccg cagcgtagcc tctccgcggc gcgatccaga tccaggtttt 120

tcagcatggg cctggtgaag gaaggcatcg acatggagga gggaaccctt gagatcggca 180

tggagtacag gactgtatct ggtgttgctg ggcctctggt catattggat aaagtaaagg 240

gccc aaagta ccaagaaatt gtaa acatcc gacttg gaga tggcac caat cgccgtggtc 300

aagtcctgga agttgatggc gaaaaagctg ttgtgcaggc ctttgaagga acttctggaa 360

tagacaacaa atacacaacc gtgcagttta caggcgaggc tttgaaaact cctgtcttac 420

ttgatattct tgggcgcatt tt 442

<210> 29801

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A8

<400> 29801

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agttgctatt tgctgaaagg aactggcctc ttctggatca ttggtgtcag tttttacagg 120

tcagacacaa taaagccata tctagagaca catgggccca gctgctggaa tttgtgaaga 180

cgaccgatcc acagttatcc aactacgacg acgaagggtc ctggccctac ctcatagacg 240

aatttgtgga atatctgact gagaacggac tcgtccagcg taaaagatga acaacgggga 300

gatgcatctc caaacaatgg ttgggctgta caaacatgat ttatctcggc cagctcgacg 360

cccaaggcct gatattggca ctctgctca attcattcac caaactggcg gcatatcatt 420

gaatttgct 429

<210> 29802
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B1

<400> 29802

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tcatttagtc atatgtgatc atatacatgt tgtacgggtgc atgtaacttt agtactatcc 360
ttgtcattgt aaatgctcat ttatttatag tattgggtctc ttacaccgtt attttgtgag 420
aatattatta gaaaaaacg gatgcttt 448

<210> 29803
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B11

<400> 29803

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tttttatttt t 311

<210> 29804
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B12

<400> 29804

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gcactagccg gcctgctgaa ttaagc 86

<210> 29805

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B2

<400> 29805

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tactttctatt ttaatattat gattgctatt tcttcaaagc aacctgacct tttccggatc 120

attgttgtca cattttacaa tctctacac aattaaacca tatccatata cacattgtac 180

cagctgctgg aatttgcaag accacctat 209

<210> 29806

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B3

<400> 29806

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180

tttttttttt tttttttttt tttttttttt tttttttttt ttttaataaa aaaaaaaaaat 240

attaaataaa ataaaaataa taatataaaa aagatatata ataaatattt ttatataaat 300

attatttttt tatataattt ttatattata tattattttt ttttttttta aaatttattt 360

atatttttat tttttttaaa 380

<210> 29807

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B4

<400> 29807

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aacgcttgca gtagaatctt ggatctgggt aaaatgagat gtccatgtaa gcatttgata 120
ttagtTTTTT cagttatatt gactaggagg atgtccatgt aagcatttga tattagTTTT 180
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<210> 29808

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B5

<400> 29808

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ggatcatcag cctatgagga aatttctggc ttttcacaac acacactgca gtcatttaca 120
gtggagagat tgcgtgcact tctacgacaa agtggctgat cgaccaaagg caaaaaggat 180
gaactgattg ctgcgttacg ggagtcgcag ggttgacatg aatctggtac ttgttttagtc 240
aatcaaaacc cttcaggcag gggttacacg accaaatgag taccaggctg tacttgtcaa 300
tggctgctct gcctagattg aatacaatgt aatggcatat gtaggttgag actttgccgg 360
accttattat actcagaatt tgTTaaactag ctgttacctg tcagtagtca tgaattcact 420
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<210> 29809

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B6

<400> 29809

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tgcagaccat ggctaccctt atagatcata cggggcaccg tatttcccc catatggTTa 120

tgggagggct cctagattcc gtcgccctat gcgctacaga ccttacttct gaagtacggg 180
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 tttttaaatt ttttaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 180
 aaatttttaa ggagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatttaa 240
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<223> Clone ID: LIB3067-059-Q1-K1-B8

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<223> Clone ID: LIB3067-059-Q1-K1-B9

<400> 29812

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ttgctgggca gtttattgac tccgattgga aagtgcaccg aagaatgctc aacttcatga 360
tggtgtcttc tccccattca gagaatgcac ttagtgaagc tattagctca agcctttctg 420
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<210> 29813

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C1

<400> 29813

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<211> 423

<212> DNA

<213> Zea mays

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cgccgacgcc gacgccttag ccttcgcctt cgaagccctg gccgccgccg agtggggcgg 360

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<211> 431

<212> DNA

<213> Zea mays

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cacgaggccg actgtgaggg cacccaatct gctgctaaga agcctcgacg caatataaac 180

gtacacagcg cttaccttca tgtgcttggg gactccatcc agagcatcgg ggtgatgatc 240

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gtttgtattt taaacaacct tttcctcaat taattacaaa tatttaaccc atttcttaat 420
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<211> 305
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<223> Clone ID: LIB3067-058-Q1-K1-G6

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aatttgtttt ttttaggggt tatttaaatt taattaactg gccttttttt tacaacttgc 240
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<210> 29818
<211> 264
<212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-G7

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gcaacctcaa acatttagat cttccctgcc tccctgggta acttgatcaa aaatttttta 180

agctccagag aatagcctta cattggcaaa tcatttgccc atagattgta agaaataaaa 240
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<210> 29819
<211> 343
<212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-G9

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ataaattcta atagttatgt gtatatcatc tattgatttg tctaccttca ttaattacag 180
tgtgtacttt ctttgctaag ctaaaatttt cttgtcaaca tgaatattaa gtagtttact 240
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<210> 29820
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H1

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aaggtcgttg caccgtctga gaggaagtat agtgtctgga taggagggtc catcctagcc 360
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<210> 29821

<211> 428
<212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-H11

<400> 29821

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aacttgattht ttgaaatgtc ctgcattgaa acaggaaact ggcatgcca acgtttgcag 180
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cttctaca 428

<210> 29822
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H12

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atgcgctacc attgttgaga tgctgataac ttgatttttg aaatgtactg cattgaaaca 180
tgaaactggc tttgccaacg tttgcagcaa tccattgct aataacatat gctgatggca 240
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<210> 29823
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H2

<400> 29823

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actagtattg gtgcttgata tcagtgtgtg gctgtgctaa taccagtgtg atactggttc 180
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<210> 29824

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H4

<400> 29824

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gacggtgacc aacatcctgg cgcaccgcga cgcgacacag cgcgcgctga tccagcagga 180
gtaccggggc gtgtttaacc aggacctggc ccggcgcacg gcgtccgagc tgagcggcca 240
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gaagcaggcg ctcacggggc acatcaccaa cctgcggggc gccacggaga tcgtctgctc 360
ccggacgccg tcgcagctgc agatcatgcg ccagacgtac cgcgccaggt tcggctgcta 420
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<210> 29825

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H5

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<211> 445
<212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-H6

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<211> 249
<212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-H7

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aaggctctgg cgttctttcg gttccttgct tgctttctgg ctgcttgcat aggtgttata 180
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249

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<211> 406

<212> DNA

<213> Zea mays

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atacgctaaa gtgcctcaat tcttgtatag catttcaaac tcgcttcata acatttcttt 300
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<210> 29829

<211> 287

<212> DNA

<213> Zea mays

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catcgggcgc tacctcaaga agggccgtta cgcgacgcgc gtctgcagcg gtgcccctcg 240
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<211> 414

<212> DNA

<213> Zea mays

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tgtggagaac gaactcgcaa agggcatcct cagaggtgat tttaaggact aggacagcat 180

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tcttcagaaa gtgtgtgagc aatctaagcc tgctgctgaa ggcgagaaga tcttgccctac 300

tgtctgattg gagctctgtt gcagttttgc aaatatggtg caacataatg tacatatgaa 360

ggttgctgat tctaagagta tatcctctgg cttataagag cattgcatcc acat 414

<210> 29831

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A2

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tttatcaggt gacacacaaa gattcatgaa tatatgtcta ggtgtcccag tgggtcaagg 360

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<212> DNA

<213> Zea mays

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<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G5

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<210> 29834

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F1

<400> 29834

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<210> 29836
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<210> 29837
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 <212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-F12

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 <211> 392
 <212> DNA
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<223> Clone ID: LIB3067-058-Q1-K1-F2

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gttgctgac caggtccgaa agctaaagca gtcagcgtg ctaactctgg cagagtcaac 180
taagatacta ccgtatgac agctcatgca agagttagac gtttcaaata taagagaact 240
cgaagatttc ctaatcaatg agtgcattga ttcgggtatc gtttagaggca aactggatca 300
gctgagaagg tgctttgagg tacaatttgc agctggaaga gatcttacac ctgatcagct 360
aaagaacatg atagagactt tgtctgattg gt 392
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<210> 29839
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F3

<400> 29839

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gccggaggcc ggcgaccgga aggcgggtggc accgccagtc gacgcggtgg atctggagct 180
ggagctggag ctggaggaga agcacgtgct ggcgggtggac gacagctccg tggaccgcgc 240
ggatgatgcc aagatcctgc gcagctccaa gtacagagtg acgaccgtgg attcggcgac 300
gcgcgcgctg gagctgctgg cgctggggct ggtccccgac gtgaacatga tcatcacgga 360
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<210> 29840

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F4

<400> 29840

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acgggggtgt gactactgta ccagaaatga ctgctacagt gattgtggat tccttccacc 120
actgttgccct gaccagggtc aaaggcttaa gcacctcata tcgctaact 169

<210> 29841

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F7

<400> 29841

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tggtgacttc aggggtggga gatatcaggt gagcgaaacg gtgaacatat tttcacatag 120
agtgagggtg actaaaggtc cccgtggcat catcaggatc gttccccaga aaggggacac 180
gtgggccttg taccgtaact ggtccccga ctggaacgag ctgacgcctg atgacgtgat 240
atacaagtac gagatagtgg aagtcgctga tgatttcact gaggagcgag ggctgactgt 300

catcccgttg ctgaaggttg ccggattcaa agccgtcttc cacagacacg tggatcccga 360
agaggtgagg aggataccaa aagaagagct gttccgggttc tcgcaccggg ttccttctcg 420
t 421

<210> 29842
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-058-Q1-K1-F8
<400> 29842

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gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgctcg 120
gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggctcctcga gtccaagatt atcctcgatc gggagacgca gaggtcccg cgccttcggct 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcgggcgc tacggcgggtg 360
gcggggcgccg tgatggcggc ggcggctacg gcggtggcgg ctgcggctac ggtggcggcg 420
gtgggtacgg tgggtggtggt ggcggc 446

<210> 29843
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-058-Q1-K1-F9
<400> 29843

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ggacgtggcg cgcacggagg ccgcacggtt cctccgcgcg cgcgggccct tagacctgac 120
ggccccgcag ctactgcggc tggcctcgct gagccgggca gggcccatcc ggcttgggct 180
cgacattggc ggcggcacgg gcacgctggc ggcgcggctc aagaagctcg tcaacgccac 240
ggtgctgacg acaaccatga atctgggcgc tccctactcg gaggcggcgg cggcacgcgg 300
ggtggtgccg ctacacgtgc cgctgcagca gcggttcccg gtgggggatg ggaccatgga 360

cgtaggtgcgg gcggggcacg ccgtgaaccg ttggatcccg gaggtggcgc tggagttcct 420
gtggtac 427

<210> 29844
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-058-Q1-K1-G10

<400> 29844

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cccgtagtga tcttgcatth gttgtttatth tgattctttt cctcgtgttt gcaacatcag 120
cttactgtgc agcatatgga gagagtgcct cacatgctgc tctaacaatc acttcgggttg 180
tgthttctcca thttctgttt gctgggatag thttggccac actthtgcagg thctttacaa 240
attcttactt gagagaggaa cctaacagcc atgttggtga gcaacgcgtg gaggggctct 300
atgcatttga cgttcattgt aactcgttct thcttgctgt tgatcatccta tatgtgggtgc 360
agtattttct gtcgcctcta ttggtcgcgc atggcttctt tccagctttg ntatctaath 420
tactc 425

<210> 29845
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-058-Q1-K1-G11

<400> 29845

gcagcagcca cctctccggc cactcggtag tgcctctggt gatggggcct ctctgataat 60
gaaatctgtg ctggatagag cgaccgagct actggcggat ccccatthcg cagccaaacta 120
cagcagatca gcacgttcgc thtggcatgc gtcgtttgat gctthctthg gactgctgac 180
gaagtactgt gacagcaagt atgaaagtat cgtgcagagg thtgccatgc agggatccaa 240
ctccatggga ggacctgaaa ccaccaaagc agtcagcagg gagatgcccg ttgagctgtt 300
acgtgcgagt cthctcata ctaatgagca gcatcgtcag aactgctag atthtgcctg 360

gaaatctacg catctgcctg gtttcagccc tactgctaac cgtggacttg tcaattctga 420
atca 424

<210> 29846
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G12

<400> 29846

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atctactgca tgccaccacg accttgtttc aagggttctg caccaatcaa tctttccgat 120
cgtcttaatc aggtgctcgg ttgggctctt gggtcagtgg aaattctgct tagtagacat 180
tgtcctatct ggtatggtta caatggacga ttgaagcttt tggagaggct ggcttacatc 240
aacactattg tatatccaat cacatccatt ccgcttattg cctatttgtgt gcttcccgcg 300
atctgcctcc ttaccaataa atttatcatt cctgagatta gcaattatgc tgggatgttc 360
ttcattcttc ttttcgcctc catttttgcc actggtatat tggagctcag atggagtggg 420
gttggca 427

<210> 29847
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G2

<400> 29847

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ggggtggcaa gtagctagga aggagagccg gagggaaggg caggccatgg cgctggaagc 120
ggtggtgttc ccgaaggagc acctagcggg cactgccaag gcgcgctcgg cgtcgtcact 180
ggcctgcggc ttccgcaccg aggaggtcga ggacaacggc ggtgtgggtc tgcaaggaga 240
ggccggcgcg gccaccacgt gagagtactg ggacgcggcg ctctgcccgt gctccactgc 300
acctgctggt gccgtggagg agtgctggta cgtgcggcac cggctttccg cgtccccacc 360
ggcgacggcg cccttcgccg tcg 383

<210> 29848
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-G3

 <400> 29848

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 gggcgcgggg gctctggcgg tactggccgc agggcacagg cacgccgtcg gtccaagccc 120
 aggaagaagt gacggcgtag caacacgtac gtacgtgcgg tacgttggtg gttgtgccat 180
 ctgtaaagtc cgggccatgg ttgttcgtgc gtgtacatgt ttactatact aaatactatg 240
 ggcatatata gatgagcttg ctactcgggtg atcgggtatac gtacgccatt atttaaggca 300
 ggatagttcc tccttttttg g 321

<210> 29849
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-G4

 <400> 29849

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 gggggattcc ccatcagcat gtccaccgac tgcaacaaga tcagctaagt tacgacgacc 120
 aagctaataa gcttaccgaa cgtacacgta cgtcccgcgc gctgcacgag tgatgaagcc 180
 aggggaagaaa taaaataaag ctagctgtat tgccaggagc agcatgcagt atcgatctat 240
 atatatactg tactgtagta ctctattata tatgtatgtg tggcctgcag tgcgagttgc 300
 ttcgatccac ctacttggtc agacagttga aaaaaaatct aaat 344

<210> 29850
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-058-Q1-K1-E9

 <400> 29850

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 ggataagagt gaggttgaaa cctcacaagt tgcgggctct gattcaatag tcatagaaaag 120
 ggtggaaaca aatctgagca aggaaccctt tctgctagtt cccttggaaa ataaggaaga 180
 gaaagagtcc cttggtataa tttgttatct tgaaaataac aagggtgatg ttcctgaggc 240
 cttctctcca aggagagata tacttgaatt gtcaatctct agcaagtcta ctgatgatag 300
 tctttcattg ggttgtgaga caccacgtga aagcatcttt gatccatttg ctccaggacc 360
 tgatgaggca gcctgtgcac caaagaagaa agtgactaga ggtgctc 407

<210> 29851
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D11

<400> 29851

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 ttcattccagt ttcggttgga ccagctagc agcagcactc ttcttgccag tggaaatgtg 180
 tcagtctcac aaagcctcaa tgtcactaac aaccagcatt ggcagaaacc acttgcaatg 240
 cggattctga tgtggtacaa agtgcaagtg gtgaaaacag gctggagcaa gggcaaatca 300
 gcaacttttc tt 312

<210> 29852
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D12

<400> 29852

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 ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc atggccgacg 180
 acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240

gacctcctca ccaagtgcgc cgtcacctgc aagaactgcg tccccgtgtc cacggacaag 300
 ggggccatca agtacaggtg ccgcgacttc ctccccgaaa actgcgggtg caagatccac 360
 tagagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420
 ccatgt 426

<210> 29853
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-058-Q1-K1-D2
 <400> 29853

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 gctccacaaa agtaaccgct aacaaaaagc tagagttgct tgtggttgat gaggctgccc 180
 agctgaaaga atgtgaaaca ctgatccctt tgcgtctgtg gaccttaaag catgctgttc 240
 taattggaga tgagtgccaa ttaccagcaa cagtcaaaag caagatgcat tatttggaag 300
 aagcctcttc gaaaggttga gttcacttgg gcacgaaaag catctactca atacgcaata 360
 cagaatgcat ncatccatta gtattttccc gaacactagc tnttatgaaa ggaaggatct 420
 cggatgcac taatgtcatg gaaaaagaac c 451

<210> 29854
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-058-Q1-K1-D3
 <400> 29854

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 ggtgtgccgg acagcccatt cgcacccctt acgaaatctg ctgcgctttt gcatgacagt 120
 ttcactgcc aaggagaccga gaacaccgtc gcgtcccggtg ttggcggtgga tgccgggtgtc 180
 gggagcaaga tcgacggtgg gagcaaccat ctccgcccc cgcggttgga aatcccttcg 240
 cccagctcct acttcttccc catgcacagg ctgtcctccg atcacggagc catgggggatg 300

taaagttcac cattgtaggc gagttatacc ctccaaccta gtcatagaat actagaagcc 360
aagaaaagcg atggtggaat atatagggaa aaa 393

<210> 29855

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D4

<400> 29855

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aggggagcga cctgaacaac gcgccaacg gcgggttcgc gtacgtgcgg tccagcgcg 120
agacggccga gttctacagg ttctggtacg cggcgcgggga gcgccacccg gggctgcacg 180
accaggacgt gctcaacgcc atcaagcgcg acccctacgt gggcgagctc ggcgtccgga 240
tcaggttcct cagcaccgag ctcttcggcg gcctctgcga gccagccgg aacctgagca 300
gggtctgcac catgcacgcc aactgctgca tcggcctgcg ccgcaagatc ggcgacctca 360
acgccatgct ccaggactgg aggcggtaca gggcgctgcc gcgcgaggag aagcgcgagg 420
tg 422

<210> 29856

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D6

<400> 29856

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tgggccagcg gagccctggc agtggcgctc cagagtacgg ctcccagtcc cagcagcaga 180
gcaggaggty caccgcagat ggcaaggacc cgctgccggc ggcacagcag ggccagggcg 240
gcgaggtygt ctatgcccg atgctcctcc cggcggggta cagcaggtat ggcgtgcagg 300
ctgagctcaa gtccggcgtg ctcatggtca cttgtcgcaa ggtcacggag cgagcgcgca 360
ggatgatcgt cgtctgtatt caagtcaagt agatatgctt gtatgtgtat gcacat 416

<210> 29857
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D7

<400> 29857

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gcatatgcca atgacgcctg agaatcttta gctgctcaaa gatgctggaa aatgctaagg 120
ggcccagcat gttttgcccc tgcgcgtcgg tacaactgca attctatagg atccagtctg 180
agattttgct cgtgttttgg gtttcccttg gacacaccgc tgctgatacc attgtagagg 240
gaggagcata acgtttccgt ttcgagtatt gactttgggc acttatagct gtcaagacat 300
gacctgggtc ttgttagatt gtatcactag attgcttttg aattcgaacg aagtgttaat 360
cgtgggc 367
  
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<210> 29858
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D8

<400> 29858

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tgttggtcgc agtcgttcca cgccaagatt gcgatccgtt tctgagcttc gagggatcaa 180
agatcaagcg ttggcgacca agtgatccag ttcttcgagt tccacgagat taaagaccct 240
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gtcgagggtg ttctccagga gttccaggac ttcgacgagt tcgaggatta ggctagcgac 360
ctccccagtc cagctgcttg tgggtgggtt atttacgttg gctacgtttc tattctgtgt 420
actttgatta tattatgtaa atgactctag tctttcatat tattacttac tctt 474
  
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<210> 29859
 <211> 421

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-058-Q1-K1-E1
 <400> 29859

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tgaaagcaca gagaaatata ggcttggtgc cgaggacctg cgtttggttc tgaagattga  180
tcctacaaat aggctggcca ggagtacaat tcaccgcctg aacaagttgg ctgactaggg  240
atgtctttct agcgccctga tgtaaatattg tactaccact gtactgcata cttctcacat  300
gagatctgtg agttatttga actctntagt ctttattact atacttgggg ctttggggga  360
atagtttgca attgtgttgn tattaagtat gaaatacgaa tttacataca atatattatt  420
t                                                                    421
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<210> 29860
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-058-Q1-K1-E10
 <400> 29860

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ttaatactac gactgctaca gaggaacaa gatacctgta ccgatggaat atgattcgtg  120
tattattcct tgggaacttg aacttatcat atggagttgt aaattatttt gtcatttcga  180
cttatgttca cttcatcatt gccttgtatg atcatgtaat tcagagaccg cagagcaaag  240
gtgggctggg gcttagggcg tatttggaag caaagtattt taaaactata gttttagaat  300
aatatagttt taagatgtta cgac                                          324
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<210> 29861
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-058-Q1-K1-E11

<400> 29861

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caccgaggcg cagtcgctcg tgggtccccg cctcggcgcc gccgccgggc cagccatgga 180
gtcatggtcc gtccctaaga agaaggtctc caagtacaag aaaggtttga ggaatggacc 240
caaagctttg aagcctgtgc cgggtattgt tcgttgcagg tgctgcggcc gagtgaagct 300
accccacttc tattgctgca gtggagaaaag aggaaacca agcgagtcga actcataaat 360
gttttgtttt cctactttgc tcaactatgt acgtctgaaa tctggacatc gtaataccaa 420
tgaaataaat t 431

<210> 29862

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E12

<400> 29862

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tgatttagta caaaaatatg ttcttagtga taatgtaaat agtgctctgg aaaataattc 180
ttcaacagaa gaagacaaga atgcagagcc agataatagc aagcgtggag atccaaatga 240
tccacgcgtt agattgaagc gggactgtgt tggtttactc gcggctttca agcttaatga 300
tccttgagat caaagtttga ttgtggcaaa cacacatatt tattgggacc cacaatggat 360
cgatgtaaag ccggctcagg caaaatatct tctttcgaga gtatctcagc ttgagca 417

<210> 29863

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-E3

<400> 29863

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ggggatctgt ttgatgcctt tgctagaaca tatttgtggt tagaactttg tcagaactac 120
 gtgcaatctg tttgaatgct tcaaaccttt gtggtggaac ctttgtatgt ttgaacctct 180
 attgtggaag aactagtgtg ctggaatgat gtatgacttg tgatgagaat gttgtgt 237

<210> 29864
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E6

<400> 29864

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aattaaaaaaaa 180
 ttaaagtaaa acaaaaatga aaaaaatgaa cttttttata cagccaccta aactggaaaa 240
 ac 242

<210> 29865
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E7

<400> 29865

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 cttcttcgcc ttcgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180
 cggcgggtggc ggtggcgggtg gaggatctgg tgggtggtgt ggtggaagcg gtgggggtgg 240
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<210> 29866
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E8

<400> 29866

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cctccgatgg actgttaaga atcaacctga acaagaagag actggacaag gaagctttga 180

ctgctgctaa attggcgaag aaggagagcc accttcgaag gtctgtgggt gctgaccagt 240

atctcagtgc ctcaactgat gacatagtcc ctttggacaa ctacctggac acccagtact 300

ttggacagat cagcatcggc acgccaccac agaacttcac agtgatattc gacactggaa 360

gctccaactt gtgggttccc tcatccaagt gctacttttc gatagcgtgc tacttacacc 420

ataaatacaa gtcaaccaag tcgaagactt acacaaagaa atggagaatc tttg 474

<210> 29867

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D10

<400> 29867

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aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgccct 180

agtcaggcgg gcgggtggcg tggcggtgga ggatctggtg gtggtggtgg tggaaagcgg 240

gggggtggga gtggaggggg tggatcgggt ggtgggagtg gaggcggagg atctggtgga 300

ggcgtgagca gcgggtggagg cggcggatct ggtggtggtg gaagcgggtg cggcagcgga 360

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<210> 29868

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B3

<400> 29868

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tccagagggtt gctagccatg ggggaggaag catctgcgcc tgcggcgga acagaagctc 180
cgatcatggat gatgactatg gtgttagggg tacacaagag cgatcacagc tcttactcgc 240
tgcaatgatc actgctgcac tttttccgt caagccatat cgcacagtc cgctgctcg 300
cgtcacgcga aataccaccg acggctgcga ctgtggcctt gacggtcaa acgctataga 360
tgtgct 366

<210> 29869
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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cagctccagg cataccctat cgagcaacta tttggccaca gttgctcaa atacttcaa 180
aagcatgggtt tttgatagaa attggcagaa aaaggccatt gtttcagtta tggaagctgg 240
tggtgtcaat tggtagtag aacttctaag gggtattcga agattgaatt tgaaagagca 300
gtggactgac ttgtcactcc actntataac tttgtactct ctgaagtcaa ctatatctga 360
aaatgttcgt gcacaaaatc atttcagaag tataggggga actggaggtc tattaatgg 420
actgggact 429

<210> 29870
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B5

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ttggctctga ggacgggtcca aggggttctga aagccgtccg tgcagctggg gaggcctctcg 180
tcgatgattg gagctgtctc aagtcacacg ttcgtacttt tgaggcgcaa tgtgggtcgt 240
tggcgcagta tgggatgaag cacatgcggg ccttcgcaaa catctgcaac gctggcatcc 300
ttcctgaagc agtgtcgaag gtcgctgctc aggcttgcaac cagcattcct tccaaccct 360
ggagttctat ccacaaaggg tttagcgctt aagaatcata aggtgaggcg aaatatttca 420
gccgctccac cgcaacgaac tgggttacat taccagtcct caaggggggc ctag 474

<210> 29871
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B6

<400> 29871

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tgtctcagaa gagcttggag aaacgctttg gccagtctcc aatttttatt gcatccacct 180
ttatgactca aggtggcata cccccttcaa caaaccacag ttccctgcta aaggaagcta 240
tacatgtcat tagttgtgga tatgaggata aaacagaatg ggggaaagag atcggtatgga 300
tatatggctc tgttactgaa gatattttta ctggtttcaa gatgcatgca agaggttgga 360
tatccatcta ctgcatgcca cttcggcctt gcttcaaggg ttctgctcca attaattctt 420
ctgatcgtct c 431

<210> 29872
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B7

<400> 29872

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ccaaaaacat cgatatctca ccaaactact cacctgtgct caaactgac gacgcctacg 180

ccagtcaaga agttaacggg cctgacggga agccattgg tcctcctatg ggaaatccat 240
ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatagc 300
gaaacccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 360
ctctacccat ggaggatgcc ttaaattgact acaaaaggct agattacatc cagcgccaca 420
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<210> 29873

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B8

<400> 29873

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gggagctcca tcaggttcct ggggtgcaca gtagatgaag tgatattgtg agagcccctc 180
cctgtcccca gccctggggc tcgtagcgga tcgtgaggga tgaatttgtg tgtggtgtgt 240
cacagggtgtg aatgcctttg ttgtcccaat attcctaccg tgttgggagt ggctgcttgc 300
tcgcgtccac gtctttcaca tgaattgggt actgtggtag ttgtagttct ggatacggga 360
ccaaaactaa agtattgctg tcaacaatct gcaacagtcg 400

<210> 29874

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C10

<400> 29874

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ggatgataaa tataacacag agagtgtgtc agaagaggtc cttgaggaga tgcgaaacatt 120
gatgaccaag gaatcaagcg atgaaactct ggggaacacc tttctactgg atgatgaaat 180
tagcttgccc atatcacttg aggagatagc agattctatg gatgccaaag aatttcagaa 240
tgttgcccca ccacaagagc ttactgcaat tcctgccttt caattcttga agagctaagc 300

cctggaaggc ctaggcctac gttgctgcac gggcatacgc aaatacatct agattcttcc 360
atcagatggt atagggtttc aattctcctt gtgctgtgta attattttgt 410

<210> 29875
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C11

<400> 29875

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acatgaacaa tgaaccaacc tataaaacta atacggaaca cttttgtact ggataatgaa 180
attagctagc ccatatacaa ttagaacatt acaaattcta tgaatgctac aaaattttaa 240
actgtaacca tatcaaaaaa acttactaca atctgtatct tttaaaaata gaatagctaa 300
aaacatttaa gactaaacct actttga 327

<210> 29876
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C12

<400> 29876

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gatctgtggt acttccggca tcgcgaactg aagtttacca ccgatccgtt ggctccttgg 180
cattcctttt cctccagcag cggcaaagcc tccatctttt tgccaaccga cttgaggaat 240
ggggtgcatg aagctgcttg gagtagactc aagctttatg gaagatttct agtacttcat 300
tccaacaag caatcagata aaaacaaaag gagcaacttc aacagaacct gctgctccag 360
tgattggacc gaccgatatt tgcaaaactgc tgaaattgaa tccatgggta gaggaagagg 420
acgaggg 427

<210> 29877

<211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C2

<400> 29877

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aattcagtat gggaggaaac aaatgcaata acatttttga cctgtgaaaa acaaatcaga   180
gaaggctaat ggccagatta caaagcaatg gtcgtgcgct aatgatttct acaatgacag   240
ttggttccct cccccaatga attccgtgta gggagggggg aaaatgcaat gacatttttt   300
agctgcggaa aggcaaatca gagaaggcta gcggccaaat cccaaagcat caatcgtgca   360
ctcttgtag cactctgaac tgaatgtgtc atcccggagg acacattttg taaaaaaca   420
gta                                                                    423
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<210> 29878
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C3

<400> 29878

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cgtcctttgg gtgtctcaaa ccagtagtgg tgactcttcc ttgcgctcct gctgagaaga   180
agcggcctcg atccatctgt tactctgtgg atgccaaggc taccgaccat gcctttaaca   240
tctctcccgt tgcccttggt catcccaaca tgccgccaac gtctacgcca cgatgggaga   300
tcaaggaaga tggcaaagaa gtcaggctga cattcttcaa cttgtcggac ggtgctacaa   360
cgggcgactt ccaggttgcc agtgaagacg atgtgctcat catcaagagc                410
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<210> 29879
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C5

<400> 29879

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agctcaacat atcacacgga tagaagagca agacgtccga cggcacctgt acctgcatag 180
acatcggtgt ggccattatg ctgccgccgg ttgcacgaat gttcaaggcc tgctgacctg 240
tagagttctg gatctgactt atgcttacat tgttcggtta cctaccgggc atcatatacg 300
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<210> 29880

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C7

<400> 29880

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gccacgcgtc cgatgaaggg aagccattgc ctctaattca gaaagctttt attggtctga 120
ctgctggagc aattggtgct tgttttggtg gtcctgctga tctggcactc attagaatgc 180
aagccgactc gaccctgccg gctgcacaac gacgcaacta taagaatgct ttccatgcac 240
tctaccgtat cagtgtgat gagggagtcc ttgcgctttg gaagggtgca ggtccaactg 300
tggtgagagc tatggcactc aatatgggta tgcttgcttt ctatga 346

<210> 29881

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-D1

<400> 29881

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gcaggtgcat gatgaagtga tactggaagg gccttcagag tctgcggagc tggccaagtc 180

catagttggt gagtgcattg ctaagccctt ctatggcacc aatatcctga aggtcgacct 240
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 ccagaagggc gtcaattcct tcggtgaaac tcggcggtatt ttgaactggg atctgctggc 360
 tgctgctagt agcctagtga gctcatctgc acgtggatgc catgcactga ttatntcggg 420
 gttgatctgg acagtg 436

<210> 29882
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B12

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 gatacaaatc ctgtggccaa ttccggtcca tgttgcttgc tacaagggtt gcgatctttg 240
 atttgacagc gcgcaaggtc ccatcagtat ctctaacatt gtcaatgcaa tttagagcaa 300
 ccttcaggag atctggcacg caagcttgaa catgggggtga caagttcctg aaaatgtcaa 360
 cagtcacatt tggagccttg ggtccaaat gaaggaaggg tagcctgatg gtttccctca 420
 aagca 425

<210> 29883
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H5

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aatcgagacc ggggccatgt tcatcgagtt cacgtccttc ttcaccttg tatgcacagt 360
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<210> 29884
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-057-Q1-K1-H6
<400> 29884

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tggacatggt ggcgcccgcg gtggcggtgg tgggtgagggc tcgatagctg gtggctctgg 240
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gagtg 305

<210> 29885
<211> 405
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 29885

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gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180
tggaggctct ggaagtttca caacaacaca caaaaaaagt cttcccaaaa gaagtcccag 240
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405

<210> 29886

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H8

<400> 29886

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ggttgttgag gagactgttt ctcacaaccc tgccctggcaa gctgccaaagg ccaagaagca 300

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<210> 29887

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A1

<400> 29887

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actcgtccta ctctgtggag tggatcccca acaatgtgaa gtccagtgtt tgtgatatcc 180

cgccaacggg cctctccatg gccttcacct tcattggcaa ttccacctgc atccaggaga 240

tgttccgccc tgtgagcgag cagttcactg ctatgttcaa gaggaaagct ttcttgcatt 300

ggtacactgg tgagggcatg gatgagatgg agttcactga agctgatagc atcatgtacg 360

atctgggggtc tgagtaccag cagtaccagg atgccgctgc agatgaagag gaatacgagg 420

actaggagga cgtccatga 439

<210> 29888
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A11

<400> 29888

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accaatatgt tcaagctctg caaggtgagg tttgttcagt ttggccaaaa aggcattcccc  180
tacctgaaca cctacgacgg tcgcgctatc cgctacctcg acccgctcat caaggccaac  240
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<210> 29889
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A12

<400> 29889

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gacaccaata tgttcaagct ctgcaaggta aggtttattc agtttggcca aaaaggcatc  180
ccctacctga acacctacta cggtcgcgct atccgctacc tcgacctgct catcaaggtc  240
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ttccacaaca tggtcacgtg gactggcgct atgaacacca aacgtgtacg aatcatcaag  360
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<210> 29890
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A2

<400> 29890

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<210> 29891

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A5

<400> 29891

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<210> 29892

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A9

<400> 29892

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tctaagaagg aatttcgtca tgaatccaca gaacgggtctc gtgatcaagc cattcaggaa 180
agcgactca aacaggcatg atgatcacga gctggtaaag cttacacact acctgctttc 240
gatcggagac ctagaagatc tcagcaagct tgaccacggg aaatgggagt cttttgtaga 300
tgagagcgta aagagacgca agcgctctta gtttccgtca gtatagtac tgtcagaaaag 360
aaaaacagaa caccattttt cttttctttt cagtgtatg gatacctcgc agattagagt 420
aaccgaatga 430

<210> 29893

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B1

<400> 29893

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accgtaactg aggaagttgc tccggctcgc accgtctccg aggagccggc gccggaagcg 120
gcgaaggagg tgggtggagaa gccggaggag gggaagaagc ccgacgagga ggggtgacgag 180
aggaagaagg ccgaccccg cgcgcgagaag gagaagaagg cgaggaagcc gcggagcatg 240
aagcccaagt ccgcggggct gcaccacccg ccctatttcg agatgatcaa ggaggcgatc 300
ctgtcgcagg acggcgggaa ggtcggggcg agcccgtacg cgatcgccaa gcacatgggg 360
gagaagcacc gggacgtgct cctcgccaat taccgcaagg tgctggcagt gc 412

<210> 29894

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B10

<400> 29894

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agatggagat ggcgggggcg gccgaagcgg acacgccgtc gcaggagccg gtgcgcacgg 180
gccggagcaa caccatcctg ctccccatcg gcggcatcct cctggcctac ctgctctacc 240
gcttctcctc cccgcgcctc cgcggcctgc gctcgcacct gccgcctgg ctgcgctgcc 300
gccgcgcgcc gaccggcggg ggcgcctgc tgcctactt cgcgccatc gccgaccgcc 360
tcggcgccgt cgcgctgccg tacctcgggc ccttcgcggc cccgcaggcg gcgctcctca 420
ggttccccg 429

<210> 29895
<211> 341
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-H2
<400> 29895

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gctctgtcct gcaacaatgg ccgctcgtc ctctcccag cagctggtcg cggcgggcgg 120
cctggcagcg gcgctgctgc tgctggcggc gggggccggg acggcgctcg cggcggtgag 180
ctgcggcgag gtgacgtcgt cggcggcgcc gtgcctcggg tacgcgatgg gcagcgcggc 240
gtgcacctcc gcggcgtgct gcagcggggg gcgctcgtc aacagccgcg cgctcgtngc 300
ggcggaccgg caggccacct gcaactgcct caagagcatg a 341

<210> 29896
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-057-Q1-K1-F2
<400> 29896

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agtcgattta tggatggaat caaatacgca gtatttacag aaaagagtct tcgtttattg 120
ggaaagaatc aatatacttt taatgtcgaa tcgggattca ctaagacaga aataaagcat 180

tgggtcgaac tcttcttttg tgtaaggta gtagctgtga atagccatcg actacccgga 240
aagggtagaa gaatgggacc tattctggga catacaatgc attacagacg tatgatcatt 300
acccttcaac cgggttattc tattccactt ctagatagag aaccgaccta aaggagaata 360
cttaataata tggcgaaaca tttatacaaa acacctatcc cgagcacacg caaggggaacc 420
gtatacaggc aagtgatatc caatccacga aa 452

<210> 29897
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-F3

<400> 29897
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tggaggcgcg ccttccgcga ccaattcgcc accttcatgg gcaacaccat cgtggagatc 120
caggtcggca tgggccctgc cggcgagctg cgtaccctg cctaccgga gagcgacggc 180
acctggtcgt tccctggcat cggcgagttc cagtgtctacg acaggttcat gctgagtagc 240
ttgaanctg ctgctgaggc cgtgggcaag cgggagtggg gcaacgcg 288

<210> 29898
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F4

<400> 29898
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ggagatgtca agattacctg ccatagtga cgtgttgaaa gagacatcat tttatcacac 120
aagtaagctt gcagatgctg atatgacatt gttggtaaag atattgaagt cttggcctcc 180
acaaatgatg tttccagtca ttgattttct gagaatgttc gtgttgcatc ctgatggagc 240
ttctttactt ctcaagacca tcgaaactgg aatgatata cttttggaaa cctttcgtaa 300
agctgttgcg tcgcctgtac agccagcaaa tatgcttaca gtcctcaaag ctgtgacaaa 360

cttgtttggc aactcatgct tgcaccagtg gctgatgacc cactgtgctg agatca 416

<210> 29899

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F5

<400> 29899

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ggcttcacaa gtcgcaacc tgcctgctgt acagtagtaa ccatgcatgc tgtagtctgc 120

cctatatgtt gacgctgtcg ttgtacctgg caacgtgtaa ttaactgccc cggagacatc 180

tgtttttggc atcttttaaaa cgtatggatc tcaataatat gacaagagtt gcctgctt 238

<210> 29900

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G10

<400> 29900

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acatgtccat caaaaaaagc gatacatcta ctaaaacaca ccaacaaaat atctaaatca 120

actgaaatgc ctgtaacctg tattatccat agcatagctc actttcaagt attttgctat 180

ccttaacatt gataagacct ctttctttac accttctctt attccgtatt caatgcatat 240

accttaaatt taccacaatt tacaggattt ccaactgatt actttaaacc agattcactt 300

tttata 306

<210> 29901

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G11

<400> 29901

agcagctcga gcgcgacttc gaccgtctca aggcctcctt cgacgctctc cgagcggacc 60

acgacgcct cctccaggac aacaaccgtc tccgctcaca ggttggtgctg ttgaccgaga 120
agctgcaaga gaaggaggat gcgacggagg gcggcgccac cgctgacacc gccgcgccgg 180
cgggtggacgt cgaggcttac ctggccgacg acgtcgagga gccagcagag cctgctgcca 240
cgttcgaggt gctgcaggag gtgaagtccg aggacaggct gagcaccggc agcagctgca 300
gcgcgatggt ggacgcagac gcgctgctgt acggcaagtt cgccgcggca agtgatagca 360
gcgtggagtc ggacttgac ggctgcgatg accactacca cgactgctgg ac 412

<210> 29902

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G12

<400> 29902

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ctctcacaag agacagcgaa ttcctacagc agaacaacaa cctcctacac tcacagctta 120
acat 124

<210> 29903

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-G2

<400> 29903

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gctcgctctg tccctccggt cacaacctcc tccacgaccg aacgagcaga gcagaccctt 120
ccccctcacc agctccgggt tccagcggcg gcggcggcga agatgatcat accggtgcgc 180
tgcttcacct gcggcaaggt gattgggaac aagtgggacc tctacctga cctcctccag 240
gccgactact cggaagggga tgctctggat gctttggaat tgttccgcta ctgctgcaag 300
cgaatgctca tgacctatgt tgacctcatt gagaagttgc tcaactacaa cacactggag 360
aagactgaga caagttaagt gagcaagcat atcatgctct gaaagcacta ctgtttcgca 420
gtatcatata tattgtaggc cgtatnngtg ttcttctcta 460

<210> 29904
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-G3

 <400> 29904

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 aaagggggga ttttaaaaaa cattaacaac actaaaaaaaa aaacaaacaa aacaaaaagg 120
 cccgcttttc tattggttcc tagcttactt actcttgctt gcctcctaata acctttattc 180
 tagtgcccc taaatccttt tgattggccc tttttttcca actttatccc tgggaaaacc 240
 ttttcttttc ccactttatt cccttttctg cccttgctcc tttccattt 290

<210> 29905
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-G4

 <400> 29905

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 gggcaagcct ccgacgcca agccgacccc gccgacgtac actccaagcc ccaagcctcc 120
 cacacacccg acgccaagc cgacccacc gacgtacacc ccttcccaa agccttcgac 180
 acccaagccg accccaccga cgtacactcc cacaccgaag ccgccggcca ccaagctcgc 240
 cacctacact ccgacgccgc cgggtgtctca cccccccagc ccgccgccac cataactacta 300
 gaaagcgatg cctaccatac cacactgctg tcagtctctt gagcatttaa gtggtcctga 360
 tcaatggaag gg 372

<210> 29906
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-G5

<400> 29906

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cggctgctcc aggacttctt caacggcaag gagctgtgca agaacaatcaa ccccgatgag 120

gctgtcgcct atgggtgctgc tgtccagggt gccatcctga gcggtgaggg caatgagaag 180

gtgcaggacc tgcttctgct ggacgtcacc cctctgtccc tgggtctgga gactgctgga 240

ggagttatga cagtgtgat cccgaggaac accaccatcc ncaccaagaa ggagcaggta 300

ttctccacct actcggacaa ccagcccgggt gtcctgatcc aggtctacga gggtgagaag 360

acccggacac gcgacaacaa cctgtgtgggc aagttcgagc tctccggcat cccccctgca 420

ccccgtggtg tgccacagat caccgtgtgc tttga 455

<210> 29907

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-G7

<400> 29907

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cacggcccag tctcagtctc atacctcata gagtccaaga attgttgga attagcagtc 120

cgcgcacggt ttcttctctt cctcctagca tccatctcg tcgtcgccca gccaccatt 180

gttgttgccg ttgatatgtt cgcgtactgc tgctatctat ctgtcctcct tccaccgttt 240

cttgttgctg atgacaaagg ttagagccgt aggtagagat gatatatgtt tagaggtgta 300

cacaaggaat ngtgactcga caaaactttc tcggcttttc accatcgtgg gaggacgact 360

tggatcgggc caaaagattg cagggccgag acccctctgc tcttgaacga tgatgcatg 420

cacgccgtcc gtcaaagaag tgatgcaacc a 451

<210> 29908

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G8

<400> 29908

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 ggaggctttc tccaagaacc tcaagcttgg catccacgag gactcgcaga acaagaccaa 120
 gatcgccgag cttctgagat accactccac caagagtggg gatgagctga ccagcctcaa 180
 ggactacgtg accaggatga atgaggggaca gaatgacata tactatatca ctggtgagag 240
 caagaaggca acggagaac 259

<210> 29909

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G9

<400> 29909

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 aacctgacaa aacaattgtt actgaaccac atcatatatg gccaaactctg aatgatgaac 120
 agtggttgaa ggttgaatgt gcactaaggg acctcattct ttccgattat gcaaagaaaa 180
 acaatgttaa tacttctgca ctacacaaat ctgaaatgcg agatatcatc cttggtgctg 240
 aaattgctcc accatcacag cagaggcaac agattgctga aattgagaaa cagtcaagag 300
 agacgactca gttaactgct gtaaccacat ggacatcaaa tgtgcatgga gatgaactca 360
 ttatcacaac cacaagtcca tacgagcaac aagcattcgc atccaagact gattggcgtg 420
 tcagagccat c 431

<210> 29910

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H10

<400> 29910

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 gcaccgtcca ccctcacgca actgcctctt cgcggcggcg caaaacacca acacgtcttc 120
 tccggttgcg aggagggtat aggatttcgc cgcggcgaga tgtcggcgta cgacgaggtg 180
 gagatcgagg acatggagtg gaacgcggag ctgaaggcgt acacgtaccc gtgcccctgc 240

ggcgacctct tccagatcac gtcgacgac ctccgcatcg gggaggagat tgcgcgctgc 300
ccgtcgtggt ctctcttctt caccgtcggt tacaacgccg aggaccttgc tgacgc 356

<210> 29911
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H11

<400> 29911

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ctatgttcaa tataaccaa agcatatacc ttgtcataat ctatgctaaa taacttacca 120
tattcatcga atcatatata gacttatact tattttcttag aaaataatga tccctcgact 180
caatagatat atattactca catcattacc catatctatc agcttacact tcaaaaaatag 240
actgatctga ccattaacat atcagaacat agatcatata tctgacccat acatacttcg 300
ctgaaacaac ttgtatttat gttcatgct 330

<210> 29912
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F12

<400> 29912

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atgacgaagc gaaccaagaa ggccggaatt gttggcaa atggaaccag gtatggtgct 120
agcttgcgta agcaaataca gaagatggag gtatctcagc actccaagta tttctgtgag 180
ttctgtggga agtttgctgt gaagaggaaa gcggttgga tttggggatg caaggactgt 240
gggaagggtca aggctgtgg tgcttacacc atgaacactg ctagtgcggt cactgtcagg 300
agcacgatcc gtcgctcgag ggagcagact gaagcatgat cggtcgcttg tcaggcatac 360
tgggggtccac tatattggct gtgtagccga gacagtactt cagcattttt gggttatgct 420
ctaagatctc t 431

<210> 29913
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H12

<400> 29913

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 aaaatttgtg attttgggtgc ttctactgtc atttgttggt atgcttgccct ttgccatcct 120
 catatgggtt ggtagaggag acaatcctat cgattcttct ctactgaaaa gggtttattt 180
 ggatgtattt tcagtagtag ttattgtact tgggtgggtgct ctggcatgtt acggtgcagt 240
 gttattctcg aagatgagca aagttcggtc tgaaactgta tcaactgaga agtggaaagt 300
 tgccagttta gctgctgtct cgctgatctg tttctcgtct tctgctatac ttgcacttgt 360
 gactaatgtt ccagtgtctt tgtattggta ttcaacagat gtggacatca tcaacaatgc 420
 ttgtattttg gttatatatt a 441

<210> 29914
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D11

<400> 29914

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 atcatcatct atctttacgc acatgatttt cagcaagctc aaaaatgcta caatgactgc 180
 tcagagggtc aagccttcct caatagcgac cagaatcgat gctcaacgaa cctattgtct 240
 gcttatgagg aaggtgatgc ttagaaatc aatcgattg ctcaatcaag tgccttcaat 300
 cacgctcgac catgtggtaa ttaggcttgc acggaagcta ccaacacgtg atctgcaggc 360
 catcaattaa gctgacgatg cgctaggaat cctaggacta ggatgacctg acctataacg 420
 atctccctag cc 432

<210> 29915
 <211> 190

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-057-Q1-K1-D3
 <400> 29915
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 aagaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaacaaa acacaaacaa aaaaaaaaaa aaagaaaaac aaaaaaaaaa acaataaac 180
 acaatgacac 190

<210> 29916
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-D4
 <400> 29916
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 ctggggacgc cgcccaggac gccgtgctgc acgctgatcc aggggctggc ggacctggag 180
 gcggcggtgt gcctctgcac cgtcctcagg gccaacgtcc tgngcatcaa cctcaacctg 240
 cccatcaacc tcagcctcct cgtcaactac tgcggcaggc gcgtcccctc gggcttccag 300
 tgcttctgac tatcacacgc ccatcgatcg atcgatctgg aggctaaata atttctccaa 360
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 atctcgtcgt ctatcgcat 439

<210> 29917
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-057-Q1-K1-D5
 <400> 29917
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gatgcattgc aaggaagatc tacctaagggc aaggcatcgg tgtgggtggc tttcagaaga 120
tctacgggtgg ccgccagagg aatgggtccc gccaccaca cttctgcaag agcagtgggtg 180
ctgttgacag caacatcctg cagcagctgc agattatggg catcatcgat gtcgatccca 240
aggggtggacg cctcatcacc aaccatggaa ggcgtgatct ggaccaagtg gctggaaggg 300
tcgctgttga agcgtgagca gtgtcatctc tgggtgtcaat ggtgtcatgt ttgatgggtg 360
acaaggcagc tctctatttg ctcttgtggg ttaggatttt cgagctcaga tgaccttaat 420
gtttattgca tctagctata gcgccacact attt 454

<210> 29918
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D7

<400> 29918

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cggcgggcccc accacgacgc cgcggcatcc tgccctgctc cggccatccg cgccaaacta 180
ggtagccccga gccgagcgcg ccaaacgagg ccgcgatgtc gcgcagccgc ccaacgccaa 240
acgcccagcc tcgcctagcg cgcattgcag 269

<210> 29919
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D9

<400> 29919

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ggtccatttg aagaatcatg accctaacag cattacacaa ccacttcaaa cctgaatgct 120
ctgacccccca tgcaactggt acactttccc tctccaagc tctagctcac attgcagaac 180
acaatcaaga catcttgaca actcatcttc accaaatcgc caccaactcc accaccaaac 240
cttatgacat cagcagctt 259

<210> 29920
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-E1

 <400> 29920

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 agatgccggt gacggccttg aagtagctga ccttgctcgtc gacggtctcg gccatggccg 120
 ccggcgacga gggctagggg ttgcagattg aggccagtgg tagcgggtgg agttaggaac 180
 taggaagagg ccagaagccg agagagatgc ggttgcgagc cgggagggcg acggccgacg 240
 ggtcagtgtc gaactgctga gtgttgacgt cttctattct cgtctcgcg gtcccggtag 300
 attgaacggc gtgccgtatt actgcactcc ggcacaacgc gtcagtttct acgagatttt 360
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<210> 29921
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-E11

 <400> 29921

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 tcctgcgcct cagctgggcc acagacgacc actacctaca caacgccttc agcacctacg 180
 gcgaggtcct cgaatgcaaa attatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
 gcttcgtcac cttctccact gaggaggcga tgcggaacgc catcgatggc atgaacggca 300
 aggagctgga cggtcgcaac atcacctca acgaggccc 339

<210> 29922
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-E12

<400> 29922

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tagtgccacg agaaatcgat gctgatgact ccgatgtgga gcctaaaagc gatgacgaga 120

gcgatgaaga tgatgatgac gacgacactg aagctctaataa ggacagagctt gagaggatta 180

agaaagaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240

agatgaaaga ggctgaactg atgcggggaa acccgttgat taatatcaac aatgctggct 300

ccttcagtgt taagagaagg tgggacgacg acgtggtatt caagaatcaa gcacgaggag 360

agaccaagac accgaaacgg ttcatacaac acaccatcag gattgatttc caccgtaaata 420

ttcttc 426

<210> 29923

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E2

<400> 29923

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tcgtgcaaag tacaactgaa ttcgagaaca aacttaagag catgatgttt cttttgacctg 120

atagaaagga tggcaagctg acccaatttg ttgatgatgt tgaagtcat tttgctgtac 180

ggaagagaag tgaaatcttg gtgaaagcaa ggaacattct tgtacaatat gattatgata 240

gtcctctgga atctggtgac caaagtgatt ctgttggtga tctacttttt cagccagaga 300

agtgttttac atctaaatca gca 323

<210> 29924

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E3

<400> 29924

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atgaattatt attgttgcac acagactagt acttgcgtgc atcgctgagg caatatatct 120

tccattctgt tttc

134

<210> 29925

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-E4

<400> 29925

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gggtccttac tcaaaacttca tgtatnncag aaaaactctt tgcannttcg gtgcgtgcga 120

gcaagtattg gtgccatctc tgcaaccagg gtaccctcag tggtcagaaa atctttgtct 180

gagggctcca nnagatatgc ttctgtgata ttccggacatn ncttaggaaa tcgagttcct 240

gcagaatata tgccctcgga aattcgcaaa actaccagtc catcaatgcc ttgcatngga 300

gatacatctg tggcctcaag nagaggaaac gctcaacgat ccccttcttc cttttcggat 360

tagcccgttg ataatccaac ctccaataat gtaaggcata ccaaacattt cttcgaaagc 420

ctntttcaag tgggtgccgag atgtgatgtg gcgaaggatt ttcttggctc gaccctttca 480

tttcgtcgat ctcatactat tcttattcta catg 514

<210> 29926

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E5

<400> 29926

tcgcacttaa aaaaaaaaaa taaaaaaaaa tataaaaaaa aaaaaaaaaa taaaaaaaaa 60

aagataaaat taaaaaaaaa ataaataaaa tacctataaa aaaaacaaaa tactacatta 120

atcctccatt atatagacta aaattaataa atttaaa 157

<210> 29927

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E7

<400> 29927

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ggcagttaaa attccttctc atctaagaaa aacttgagca taatgcattg caaggtacat 120
ttaaaattta aagaccta atcctctgtgg ttcgtatgaa acaacgacag tatcttagca 180
agcacataaa caatccacta acaactctat cacatcaacc aacagactgt atcctaattt 240
aaggccaaag cattccttta cctaactttt ccattttaga gataagcagg gctgctgagg 300
aatggcagtg cagcgagaga catgagcgta tccgatgaag cgtcaccctt tctggcgtgc 360
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<210> 29928

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E9

<400> 29928

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tgtactacaa gcgattcttc ccatattacg ccttcaatga gctcgggtggg cttgacagct 180
aggggaaagg atgcgttttc acctatgatg cagtaggttc ctatgagaga accgggttaca 240
gtgctcaggg aactggatct actttgatca tgccagtcct ggacaatcaa ctaaaatcac 300
caagtcctct attactccct gtcagggatg ctgtcacacc attgtcggag tcagaagcca 360
tcgatctagt taaggacgtg tttcgatctg caactgacag agacatctac act 413

<210> 29929

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F1

<400> 29929

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tgagacagtt gggtacctta atctttatgg acagatgcta tgtgttgctt ctgtggcact 120

tttgtttaag ctaagttttg cggagacaag atacttatat atgttccgga tgaaattatg 180
gttc 184

<210> 29930
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D10

<400> 29930

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gggagccgac cctttattgc gacaactatt tggcttcagc gatggagaag cttgagggga 120
aaggagtcag atcagtggag aaaatttgag cttttctgta gcgatgaatgt tgataataac 180
aggtcagtat gtgaggaagg tttatttggt tggaaacggtg cattcgtgtc gtgttaatcc 240
agcaaatcct gtgtagggtta agtaacaagg cttctgtgct gttaaaaata ttttactatg 300
tcatttcttt ggacggtttt ctgaactaat gtgtggttac cattatgcct tgttcggggt 360
aaaaaaataa aaatagggt gtc 383

<210> 29931
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F10

<400> 29931

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tagggccacg agaaatcgat gctgatgact gcgatgtgga gcctaaaagc gatgactaga 120
gcatgaaga tgatgatgac gacgacactg aagctctaataa ggcagagctt gagaggatta 180
agaaagaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240
agatgaagga ggctgaactg atgcggggaa acccggtgat taatatcaac aatgctggct 300
ccttcaatgt taagagaagg tgggacgacg acgtggtatt caagaatcaa gcacgaggag 360
agaccaagac accgaaacg ttcacatcaac acaccatcaa gactga 406

<210> 29932
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-B4

 <400> 29932

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 ggcggtggcg attaaataaa gaaatagtgg aaaagggtga cttcatccgt gcgggtgagc 120
 gatctatagc agggatagag aaaaagcatg caaaattgaa gggtaatgaa aaagctgttg 180
 ttgcgcggca tgaagtaggt catgcactcg tgggaactgc tgtagcaaac ctcccttctg 240
 gacagccacg tgtggagaaa ttgagtatat tgccaagatc tggaggtgca ttaggcttca 300
 cgtacacccc tncgcgcaca gaggatagat atttactctt tgttgatgaa ctacgtggcc 360
 gtttagtaac actactgggt gggagggcag cagaggaagt tgttttagca tgactggttt 420
 cgactggtgc acttgatgac ataagacgtg ctactga 457

<210> 29933
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B5

 <400> 29933

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 ggcgctcaa tcgcctcccg tccgcctgcg ttggcgacat ggtcatggcc accgtcaaga 120
 aggggaagcc cgacctcagg aagaagggtga tgcccgccgt catcgtccgc cagcgcaagc 180
 cgtggcgccg caaggacggg gtctacatgt acttcgaaga taatgctgga gtgattgtga 240
 atcccaaggg tgagatgaaa ggttccgcta tcaactggacc tatcggcaag gagtgtgctg 300
 atctttggcc taggattgct agcgcagcaa acgctatcgt ttgagagctt gttggaatat 360
 gttcagactt ctatatgatc atcttattat caggtgctaa aagggtattt gggcttaatg 420
 ggccctttat gtttgttcac tcaattttgg agt 453

<210> 29934

<211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-B6

 <400> 29934

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 ggcttccttc gtgtgatact ggatggaggt tctactcgtg tcttctctcc aaatgatgca 120
 gctttattgg aggaagatct tgaaaccctg aaggaatttt ttgtttctgg tggagatgga 180
 ctgcctcgtg gaactgttga aaacttgggtc tcgctgttac gtccgtgaat aaatctgata 240
 aagcaagaga cccgcgtgct cattgatgac ctacgagaag ttactcaagg tggcaagaag 300
 caatttgag cggaactcaa aacctnctt agggctcctgt gtcacagaaa tgattcagag 360
 gcatcacatt acgtgaagaa gccattcaag gatcccaact taactt 406

<210> 29935
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B9

 <400> 29935

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 cgtcctgcct ttggagctct cagcgagatg cagtctctgc aatgctttaa gcccgctcgt 120
 gctgtgctta gtttcttgtg cacgtgagtt gaatgcctca agggctggtg actttgtagt 180
 gtaagttatg caacgatgac atagattagc tattataaat cctaaatgag gtatgtatgc 240
 gcatgctgta ttgtagtgtg gtagattcgg acttcgcaat tgcaactgat gctacacttt 300
 tggtcagtga tgatgccttt cgctgcaaaa aaaaacattt tataaaatc 349

<210> 29936
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-C1

 <400> 29936

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cgccattgac tcttggccaa gaattcagtg gctacactac acaggtcaaa tatggaattg 120
accgcattaa ttgtacatta cctcggatgt accagcttgc tcaaggtgga actgcagttg 180
gaactggctt gaacaccaag aaaggatttg atgccaaaat agctgctgca gtggctgagg 240
aaacaaacct accctttgtg acagcagaga acaagtttga agctttggca gcacatgacg 300
cttttgttga gagcagtggt gccgtaaata caatttctgc atctcttatg aagatagcaa 360
acgacatacg tttgctagga agtggtcctc ggtgtggtct tggatgaacta atcctaccag 420
aaaatgagcc tgggagcagc attatgcctg gg 452

<210> 29937

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C10

<400> 29937

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cctcctcaaa caagactgaa gtattgcaac aagagatctg gagagatttt cctgaagatc 120
tttttgaaac tgtcattgca aggcttccag ttgctgcaat ttttcgattc cgcactgtct 180
gccgaaagtg gtcttctctt ttgggctcag acagtttctc tcatcagtac tctgaagctc 240
cacgtgggct accatggttc tatacaatca cccatgagaa cgcaacaac aatgttgcaa 300
tgtatgatcc ttgctgaag aaatggcacc acccatccgt tcctctcact cctacaaaga 360
tagttattcc agtggcatct gtgggtggcc ttgtatgttt attggatctg agccacatga 420
atttctacat t 431

<210> 29938

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C11

<400> 29938

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aacgggcgca actgaagatg cagctgttac tgatgcagct catacaactg catgtgacat 120
gtcatataga cctgcctttg atgattatct gacgcacgat gctagctact ctggcaaaga 180
atgacagtga aaggagtacc tatacgtgct catacagcag cctcatgggc ttaatgatcc 240
tgaccacagt gcacaaattg aagatggagt tcagctacac caacatcatc aaagatctca 300
agatagatga ctgctgcaat gggacattag ttcatgaccc agaacttggg acaggtcatt 360
cagatacata gtgatca 377

<210> 29939
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C12

<400> 29939

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cgaaacaccg tccacgagaa agcggaggag ggagcaatgg cggagccgag ccagcagcag 120
cagctgcggg cgttcgtgga ggtgccggcg ggctcccact tccccatcca gaacctgccc 180
ttcgggggtct tccgccggcg ggggggtgcag ggcgaggctc cgcgccccgc ggtggccatc 240
ggtgacttcg cgctcgacct cgccggcgct gccgacgcgg ggctcttcga cgggccccgcg 300
ctctccggct ccccgctgtg tcaccaggag acgctcaaca tgttcttggg gatgggcccg 360
ccgtcgtgga gggaggcgcg cgccacgcta cagaaaatcc tatcagccga cgagccccgc 420
ttgcgtgac 429

<210> 29940
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C2

<400> 29940

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tgggttcccc aaatccggtg actccattcc tgttgttctt cacgtcgacc ccgggaacct 120
cccagaaggc tctagcgacc ccggcgctct gagtgtgtg ctgccggcgg cgagatccag 180

gagctgcctg ccattggtgaa ggacagcgcc tactacgacg tcctaggggt cagcgtcgac 240
 gcgtcctccg ccgagatcaa gaaggcgtat tacatcaagg cgaagctggt gcacccggac 300
 aagaatcccg ggaaccctga cgccgcactc aagttccagg aacttggata ggcctatcaa 360
 gtttctagt atcctgggaa aaaggaggct tatgattagt attggaagga gggttttccc 420
 taagataaca tgggtgatcc tgcttctgtc ttt 453

<210> 29941
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C3

<400> 29941

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 ggggaacaag atagctctca agttcgacac tgtgttttgg cccgacgttg aagtgatagg 120
 taggggtggc cgcagctcaa acgcctgggg ctactttcta aaccttaaca aagccacagg 180
 aaaccgggtt ctggtgtgca tgggtggccgg aaggttcgcg tacgagatcg agaagctgtc 240
 ggacgaagag tccgtgaact 260

<210> 29942
 <211> 210
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-057-Q1-K1-C4

<400> 29942

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 tcgggtgaac ctagacgatc taacaggcga attcaaccaa cttcaagggt actagagggc 120
 ttgcaaagtt ccttcgtaat ctcgaaagtt cctggcgaga aggttcctag gagcaattac 180
 aaaagtgcac tctcaagagg gagaactcaa 210

<210> 29943
 <211> 330
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C5

<400> 29943

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ggccccgacg tcaaacgcct gtggctactt tctcaacctt aacaaagcca caggaaaccc 120

ggttctggtg tgcattggtg ccggaagggt cgcgtacgag atcgagaagc tgtcggacga 180

agagtccgtg aacttcgtca tgtcccagct catgaacatg ctgccgcatg caactgaccc 240

ggttcagtat ctggtctcgc gctggggtag tgacccaac tcacttggtt cctactcatg 300

cgatctggtt gggagaccag ctgacctgta 330

<210> 29944

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-C6

<400> 29944

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aacttgaatc tgtactttct ggattgaatg tgcttgttga gacttacttt gctgatgttc 120

ctgctgagtc ctacaagacc ctaacatctc tgagcagtgt gactgcctat ggttttgatc 180

ttgtccgtgg aacccaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt 240

acctctntgc tgggtgtgtg gatggacgca acatcttggc tgatgatctt gctacatctc 300

tcagcactct ccagtctctt gaggcttgtg ttgggaagga catgcttgtc gtatcaactt 360

cctgctcgct catgcacacc gctgtggatc ttgtgaacga gact 404

<210> 29945

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C7

<400> 29945

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ctggacgttc agcatgtttc acttgtcata aattatgac taccaaataa tcgtgagctt 120
 tacatccatc gcattgggtcg ctctgggtcgt cttggggcgca aggggtgtggc gatcaatttc 180
 gtgcgcaagg atgacattcg tatactgaga gatatagagc agtactacag cacacaaatt 240
 gacgagatgc caatgaatgt tgctgatctt atttgagcac ctagaggatc aggcaggg 298

<210> 29946

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C8

<400> 29946

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 gtaaaaaatt cttaccagct aaatgctgac atgatgaact gtaatgaacc ctagagcacc 180
 tttcaatgga ctggtt 196

<210> 29947

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C9

<400> 29947

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 tggcatggga atcatccctc tatgcttcaa agcaggggag gatgcagaca ccctgggcct 120
 aaccggccat gagcgctaca cgggccacct tccaaccaat gtgagtgaga taaagcctgg 180
 ccaagatgtt accgtgacaa ctgataatgg gaagtcgttc acttgcacac tcagattcga 240
 cactgaggtg gagcttgctt actacgacca tgggtggcatt ctaccatatg tcatcagaaa 300
 gattgcggaa caatagattg tacaatttga gatgattgcg atgcgggtgga tcgtaattgg 360
 tgtaaacgac ccatttttga gtacatataa taacctttga gtttctcaga gtgagctgtc 420
 tggaactttt agt 433

<210> 29948
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-D1

 <400> 29948

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 gggcgaactc gatagctatc aaatccaaat ctctgctttg gatctacagt tcagctactt 120
 cttcggctgc ctcgacttga caaccttcta ccaatttttt caaaacgaac ttagcaccta 180
 caaacacgta cttgattccc atattatcct caatcttcac acacaaaatt cacaagactt 240
 ctgattaaga accttctaaa ctgatgatgt catacctaac gcacatgctg gcataaacag 300
 ctaacatctt gaatgaccta acatcactct caactagtta cactaactca gttggcttct 360

<210> 29949
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B3

 <400> 29949

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 taatagttaa tccccactct aagaaaaaag tgattcccc cgtcattgta ctacaactca 180
 agccgagacg ccacaaggac agagtctaca tgtacttcta atataatgct tgattgattg 240
 ttaatcccaa aggtgagatt aaaagttcct cta 273

<210> 29950
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-H5

 <400> 29950

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 ggacaccggc gtcggtggcg gcgccggcag ccgcacgtgc aggagggttt tccagtacca 120

gaagctggac tgctgctggg acgatggaac cactttcagg tggcgggtgtc caccagccgc 180
 gaatggtaag aaggctgaag cccctgttt gttcagtgtc aggcgggtca agtggagcaa 240
 ggtcacctcg gttctgatac cgaagaaagt cgccgagttg tctgcaaaga tctgccacgc 300
 cggcgccagg acggaagccg tcgtctgccc ggccgtcgtc ttcattgtcgg cgtggggcct 360
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 agacac 426

<210> 29951
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H7

<400> 29951

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 cagtcttcat cgagctcttc ttcattctga cgtcgatctg gcttcaccag ttctactaca 120
 tctttggctt cctgttcctg gtgttcatta tcctcatcat cacctgtgcg gagatcacga 180
 tcgtgctgtg ctatttccaa ctgtgcagtg aggactacct gtgggtgggtg aggtcctttc 240
 tgacctcagg atcatcagca atctacctct tcctgtacgc cgggttctac ttcttcaacta 300
 agctacagat cactaaagtt gtgtcaagca tggctgactt tggctacatg 350

<210> 29952
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-H8

<400> 29952

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 tttccagatc agtgttggtc ttgctggaac taccaataaa actgttaagg tgccgaagaa 120
 cttcactctt aagactccag gccctgggta cacatgtggg cgtgctattg ttggcaggcc 180
 aacaaagttt ttcactgcgg atgggvcgag ggtaacccaa gctctaataa catggaatgt 240

gacctgcaca tattcccaat ttcttgctca gaagactccg tntctgctgtg tatctctctc 300
atcatttttaa taatgaca 318

<210> 29953
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H9

<400> 29953

atgacaacga gaaatcgag ctgggatggg cgcgtggggc atgcactagg agcgccaagg 60
gtattctgtc ttcttttccc tgagctcagt tctatgtact tctgatagag ttttaagaaaa 120
tcactatata aaacctctc gcaatgcatg aatttcctaa ctgaagaggg agggagagag 180
agagagagaa tgttcctgtt tatgtagaga tggagtccaa aatttggtgtg cctgatgagt 240
tcttcccat atgatattaa ctgaaatagt atatcaattg aatgtattac attttaagtt 300
tt 302

<210> 29954
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-057-Q1-K1-A1

<400> 29954

agcggaggag gaagaggag ccaagcggtc aagccggctc ggccgctcgc ctcccaccaa 60
aatccccccg aatccccacc cccaagcaac acccagaaaa ggcgacaggt gccgaggtcg 120
ggggagcgat ggttggtcgg cggtggggcg gcacggggcg cgcgctgctc acgctcccca 180
acatccggag gcgggcgtcc aactcctggg cgcgcgtctg cgacaccttc ttctctacca 240
agcaagtgtt cgagagccac cgcacgtctt tcaccgtcgg cacctcaatc gccttcgtcc 300
tcacggcttg ggccggttat tcaattcgcc atgtgcaaca attaaagatt gaaaggaagc 360
ttgagtcaat tgaatcatct ctgaaggata accacaaagt tgaacatgaa gagataaaaa 420
agatcgtcac ttncagcaat attagcgct 449

<210> 29955
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-A10

 <400> 29955

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 gactcctgca agcaattcgt tgtcccaaga agacattgag gccctcacca agaggacaca 120
 agatgggtggg acagaggtgg ttgaagcaaa ggcgggaaaa ggctctgcaa cgttgtccat 180
 ggcatatgct ggtgctgttt ttgcagatgc atgtttgaag ggtctgaatg gagttccaga 240
 cattgtagag tgctcttttg tgcaatcaac tgtgacagag ttgccattct ttgcctctaa 300
 ggttcggctc ggcaagaatg gagtggaaga agtgcttggg ctgggtgagc tcaacgagtt 360
 cgagaagagg ggct 374

<210> 29956
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-A11

 <400> 29956

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 gaggacggag ggagtacatt gcacccatga gattaccctc tactgtctaa caactgaagg 120
 agcaagcccc agccctagat acacgacaca tacaaggtaa atgccaaaag ccaagttgcc 180
 tacacctaact actgctgaca gcccaagcct accagcgaca ttacacaatc agtagcaa 240
 cggatatgaag actggatatc gtggcatatg ttgagcttaa tatcaagagt cgtccagaac 300
 tcgagatgct cagtaaatgc caggaatgac tctgtatggg actttgttgc atgaaatctt 360
 gcagtacttg ccgtactttg atgagcaccg gtcacatcc ctctttgctc ggtcaa 420
 taatatagtc agaaagatca c 441

<210> 29957
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A12

<400> 29957

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cgctgcctct cgtttctctt ttcaataatc aagatgagcc gtggtggttag tgccggtggt 120
ggtcaaagct ctctgggtta tctctttgga agcggtgagc ccccatatac agcagtggca 180
ccagctgcaa gtgctccacc tggtgagaaa ccatctgctg caaagactga tgccggccaag 240
caggttgctg ctgggggttac cagccatacc aataactacc acagggctga tggtcagaac 300
actggcaact tacttacgga ccgtccttca accaaagtcc acgctgctcc tggcggtggc 360
tcttcctggt gctacctgtt cgggtggcaac tgatgcccg tctg 404

<210> 29958

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A2

<400> 29958

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gggcgtgcag agagtcacg tgcccgaat gggccgtagt ggagctgcac ggcgtggtgc 120
agacgcaggc ctcttcgcc ggcgacattc ggggactcca catcggtcgc ctctgctcct 180
ccccttgccc agcctccgtc tcgtccaagg cagggttcac cttcacggtg gggtagaacg 240
agctcgtcgg cgcaaaagtg acgctcaaga agcctctgct ggtgctcagg aagaagaatg 300
ttaatgctgg tgc 313

<210> 29959

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A5

<400> 29959

cggacgcgtg ggcggacgcg tgggaggact cttgggtttc tcttggcaca tgctactgcg 60
gttgcaagat accgtacgaa atatcagggt ctatatatgc ttggaagttg gaacaatggc 120

tgctcagaag ggtaaggctcg gaatagtctt ggacttcaac tgtgacgagg ctcttacaaa 180
ctcacctgat gaccaagcat catcccaaag agcctgggac ttctacattg gctggaatgt 240
tgatccattg ataaacggac tctattcaca gataatgcaa gatctcgtgt aggagatgct 300
gcctagggttc acttctgagc ttgctaattt ggtgaatggc tcggcagact acatcggttat 360
caacgagtac acatccatct acgttaaggg gcag 394

<210> 29960

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A6

<400> 29960

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aaaaaaaaata aaaaaaaagg caaccctttt aaaaaaatcc acaccttact taccatcca 120
ttcaacatca taacattttc tataatttta cctaaattta atttacttgc cttactttta 180
caacatctta acttgtaaaa cccttacatt acccaactta aatacctttc ataacatccc 240
cctttttcca gcttgccctaa tatccaaaat tcccaaact atcgctcctt ccaacaat 298

<210> 29961

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A9

<400> 29961

cggacgcgtg ggcggacgcg tggtcggacg tttgggcgga cgcgtgggcg gacggggctg 60
cggactcgtg ggcggacacg tgggccgacg catgagcgga cacgtgggtg actaaggagc 120
tggtagctag ttcacacgaa atgtggactg ttaggaaagg acgctatctg ggtaggctgc 180
tgcgcaacac attgcgcaag accgcacaga gtctgagcta tcacaaagca gctagtaacg 240
ctgaatatga agacgacctg attggacatg ctgttcgtta gaggtagagg aagaccgaga 300
tttctg 306

<210> 29962
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B10

 <400> 29962

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 tgtcctacct gcaccgcatc accgacagtt cttgcacagc tacagctctg tagagggata 120
 gtagaggatt cttatcatgc gttttgtatt ctgacctttg cttgttgtga gacccagtcc 180
 acatgaagat gtttttttta tttgttattg atactttcac gacgttgaag catacaatta 240
 tatgcatcaa ggttgtcaaa gaaaggtcca gcatgagaaa gctgaccaa tggtgcgcca 300
 aaaaaaata tatataacaa aaataagaaa aaaaaattaa taaatagaaa atgctatata 360
 caaatgccta aaaccaactc atcaatattg aggaatatta aaaaaaaaaag ggctgccttt 420
 ttag 424

<210> 29963
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-057-Q1-K1-B11

 <400> 29963

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 gggcgactcc gtcactcttc ctcttcggtt ccatttcaag atccctgcag ccgtccgttc 120
 atccatccat ccacccatcc gttaagagga gaggggaagc cggccggccg gccggccggt 180
 ggagcggaga tgagggggca gacagagaca ggcctgtggc gaggaggcga cggcgctgcg 240
 gcgtggtggg tggccgtggt ggccctgcag ctgggccatt cactgagccg cgcgcgggct 300
 gggctgctgg agtccaaccc gggcctggcc tacaacttct accagagcag ctgccccagc 360
 gcggagtcca tcgtccggag cgtcacctgg gcgcaagtc 399

<210> 29964
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H4

<400> 29964

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aattaatggg atgaagggga ttttggatcc tgtcaaagtc caatgtggac tggagtacaa 120
cttaaaactt gatggtgaag ccatggatat aagctaagca agaacgacca catacacaga 180
tgcccatctc caccagattt cgtgcatttt agatctgtac agtgtgagag atggattatt 240
ctttggaagg tacagaatct tctcgcatgt ataccggtgg atgctttggg cagaacttga 300
cagcgtcatc gcgaataata tagattctga atgtagacct 340

<210> 29965

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B12

<400> 29965

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tgctgatgct gcatgttcaa tgtatacttt gtctctaaat cgagaagcta caccaaactt 120
tattgtgtca tctgagagat cagtcaagtc aatgactgaa cagcagttag atgaaaacag 180
tgaaaagcat gaagaaaata gtggaaggct tgaagaacat ggtggaaatc ctgttcaaac 240
ttcctatgat caaattgtta atggctgcag tggaagaggg aatagaaaat tctgcagtgg 300
aagaaggaaa ggaaaaggaa aatgataagg 330

<210> 29966

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B2

<400> 29966

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cgtcgctgtg gaccgagatg gcgctgccga atcaggggac cgttgattac cccagcttca 120
agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180

ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtccat ccgttggatt 240
 tcaccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg caagagaagt 300
 ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc atgtttgatg 360
 taacctcaag gcttacttac aagaatgttc ctacatggca tatggacctg tgcagggctc 420
 gtgaaaac 428

<210> 29967
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F9

<400> 29967
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 ggtgacccta gatatacaacc gatgcacgat ccatctcgat cctgtgatcg aataccggcg 120
 taggtactac taataaagtc aggccccgtc aaatgcttta catggtgatt gaagtctgga 180
 gcttctcagc accaccatat attgtgttca gttcttgtgt ttattgccat agctaccttt 240
 tttttctctg atctacgagc tagacgtagc tttgtgcttg gagattccac tactatgttt 300
 cctctgtcct gtgtatgctt taacggagat gcacgttgta cccgtggtaa tatatataaa 360
 tttgcgttgt 370

<210> 29968
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G1

<400> 29968
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 ttcagatgat agacatgatg attgggcttt cgaggaggga ccacactctg actttactgg 120
 gccaaattgt gggagtacag catgtgtagc attagtcaga aataggcaac tcgttggtggc 180
 aaatgctggt gactcccgct gcgtcatctc aaggaatggc caggcataca atttgtcaag 240
 agaccataaa ccagagcttg aggcagagag agaaaggata caaagtgccg ggggttacat 300

taaaatgggg cgtgtaaag gaagtttaaa tttgtcaaga gctattggag acatggagct 360
 taaacaaaac aagttcttgt cccctggata gcaaattttg acccgaaacc ctgacataaa 420
 cattgtcgag ctatgtgacg acga 444

<210> 29969
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-G10
 <400> 29969

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 cgcaaggacg gggctctacat gtacttcgaa gataatgctg gagtgattgt gaatcccaag 120
 ggtgagatga aaggttccgc tatcactgga cctatcgga aggagtgtgc tgatctttgg 180
 cctaggattg ctacgcgacg aaacgctatc gtttgagagc ttggtggaat atgttcagac 240
 ttctatatga tcactttatt atcagttgct aagagggcta ttgggcttaa tgggcccttt 300
 atgtttgttc actcaatttt gtagtaaaca gaatttgga taccaagggg atctatatat 360
 caatgtatgc cat 373

<210> 29970
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-G11
 <400> 29970

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 cggcggctgc tccgagatct ccttctctga taactccgcc ccgccaccgc caccaccgcc 120
 tcctaagcca ttcaccattg aggaccgccc gggcgagcag tgggcccgcg tgcgccgcgt 180
 gttccctgcg gccgaggggg aggaagagga ggtcaggggtg gacgccacgt tggtcgacgg 240
 cgcgctccct ccctcccgcg cgggcgcgga cacgggcggt nccgcccgaga tgcataac 298

<210> 29971

<211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G12

 <400> 29971

 cccactcgtc cgcggactcg tggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
 ggaaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaaaaaatat aaaaaaaaaa aaaaaaagta 180
 cttgcgagcc aataaatata tataaaatgg cctaaatgca aaaaaacagc ccctggtaaa 240
 acaagggcac aacag 255

<210> 29972
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-G2

 <400> 29972

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 ggagagcctc gtggactcag aggacgtgag gccataaatt tcgaaggcct tccatgacaa 120
 acctgagtag aaatagttct agaggcatac ggatgtatca ttcagtgaac ctctcgctga 180
 agttagcttc gctccacacg gtgcaggcca ttcttgggaa gttaggtata ggatcaagat 240
 tcaccattta tgttatgtta gctgtttacaa atagcaagca taaactgctg tcgtcgatga 300
 aaatggctng tgtgtgtatg tcttttcggt gttccgtgtc acagatcatt gtacagaaac 360
 gaacaatagt gctgaataaa gtgatctgag tgcaattttg etc 403

<210> 29973
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G3

 <400> 29973

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gagcatccgc gcgcggggtc tgagagcaga gcggcagggc gccatggcgg cgtcggtggc 120
 gctgagcagc gggcaccgga tgccggcggt ggggctgggc gtgtggcgga tggagaaggc 180
 ggacatccgc ggctcatcc acacagcgct ccgcgtcggc taccgccacc tggactgcgc 240
 cgctgactac cagaacgaag ctgaagttgg tgacgcgctc gcagaggcat tccagaccgg 300
 actcgtcaag cgggaggacc tgttcacac aaccaagctg tggaactcag accatggcca 360
 tgtgcttgaa gcctgcaagg ac 382

<210> 29974

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-G4

<400> 29974

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 cctctttgga ggcattactt ccagaacacc cagggcttta tctttgttgt ggacagcaat 120
 gaccgtgacc gtgttggtga agccagagat gagctccaca ggatgctgaa cgaggatgag 180
 ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa tgccatgaat 240
 gctgctgaga ttactgacaa gcttggatta cactccctgc gccagcgaca ctggtacatn 300
 cagagcactt gtgccacaac ttgcgaaggt ctgta 335

<210> 29975

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G5

<400> 29975

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 cgaggataac cagagtgtgc tggtttattg cttctcatgg gttgtaattt tcgttgtttt 120
 actcgttatg aagaccgtgt gcgtgctgat cctgggctgg atcctgtttg actcggtcct 180
 caccgtgaag aacatacttg ggatgctgct cgccgtgatg ggcattggtg tctacagctg 240

ggccgtggaa gcggag

256

<210> 29976

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-G6

<400> 29976

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aaggccagc gtattatgac ccagcccatc aacctcatct tccggttcct acagagcaaa 120

gcgcgcattc agatctggct attcgagcag aaggacctcc ggattgaggg tcgcattatc 180

ggattcgatg agtacatgaa cttgggtcctc gaagacgctg aggaaatcaa cgtcaagaaa 240

aacactagga aatcactggg ccggatactc ctcaaagggtg acaatataac tttgatgatg 300

aacagtggca agtgaagatt cttatggcaa gaacgatgtc tggtgctcgc ttcgattatc 360

tgggacacaa tgtacttcat tccatcgtnc agacttaaatt gatgtatc 408

<210> 29977

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G7

<400> 29977

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atggaatggc atgaggtacc atcacatgga tgcacaacaa ctgcgcatctg gtggatggat 120

tgctgtaatg gatggtgatc gaggcccttc aggtgattca accagacgct ctctcattgg 180

ttacttagct ttcctgttgg ccagtgcctt tgcgtttttt gtgggtttta tgaaagggtgc 240

aatcagttgt tacgttcctc ccagattatg ggttcctctc acaaggagaa cagaattatc 300

ccgtatcttc tacgtgcacc gcttcaacca gaaagtccgc agatattcta acagcatcag 360

cagatatatc tc 372

<210> 29978

<211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-G8

 <400> 29978

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 tactgagtat gctgtaatag aatgctacga tacattatta gatatccttt acagcattat 120
 tgttggtacaa agtgataaga aagttgttga tagaatacgt gaaagcatca aagatagcat 180
 ccaccggaaa tcactcgtga aagaattccg attggatgaa cttcctcaac taagtgtctaa 240
 gtttgataag ttgctaaatc tactgaagga atatgatgag aacgatcctg taaatagaaa 300
 cacacatatt gccaatctgt tgcaggatat aatggaaatc atcacacatg atattatgaa 360
 aaatggaaaa ggtatttttg aagacgaggg ccaaaaacaa caactgtttg caaaattaaa 420
 tc 422

<210> 29979
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-H1

 <400> 29979

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 gagacttgga gagagcctta tcaacatcta gaaagtgcaa gaaggctgca agttcatgac 120
 tgcagtcacc cttgtgggtt cggccgacag attcataaga cgatcaagta cagaacgcga 180
 tccttgagat atctaagctg atgtctcgaa tagttgagag cagccagtca gaaccccaag 240
 agccttcttc accttaatct aatccttttg ctagatcgcg tgaaaattct acagcggagt 300
 aaacgccagc attacgtcga tacccttaag gtttcttacg cagcttgacg agaggttcag 360
 cgtatatata tatatgcatt aattcgtttt gcttggccaa ggcgcacccg gtttttttga 420
 acttac 426

<210> 29980
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H10

<400> 29980

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gtgtaatctg gttgtggaga tccaaaaatc cacgcagatg gaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aaaaagaaaa aaaaaaaaaa aaaaagaaaa 180
tagagagaga gaattatctg gtacatgtac acatgagcaa cataacttgt gtaaatgatg 240
aattat 246

<210> 29981

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H11

<400> 29981

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aagcccgccg gcgagatccg cgcggcaggc ggacggggcc gctcgaccgc ctctgtgccg 120
tgcgcgccct cccacctctt ccgttctccg ctccccgcgc ccgcgaaggc gaattgctga 180
attgaggggtg gtggctcgtg cttgatthtg atthtggggg tcggthtcag ttccaattca 240
tgacgggtcg gccgggggtg gtgggtgaagg tggcgcatgg ctcggcgggn gngtggcagc 300
gcgtggcgtg ctaccgggag acgctnccgg ctgacc 336

<210> 29982

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H12

<400> 29982

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atctgagggc acgatagatg gagggcgccg gatctctcgg tctgcagthc tgctccacct 120
cgatggatga tgtctctcgc ctgataatta ttggatcaat ttcgataatt attagtagat 180

ctatgagata tgccgcctgg aagaggcgag gtaagctgca gcatgtaaaa aagagaaaaa 240
 agatgtgaca tcttagagga ggaggccttt gccatgatgg gtgcgctcgc atggcaggcc 300
 aggcaataat aaaaagatga ttattgcgtg ccggggggagg agatcgcacg gnggttgatg 360
 tttttggccc cgggttcttc ttcctcatct tgttccgtgt tctgtatgc g 411

<210> 29983
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H2

<400> 29983

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atgacaaatc aaactaaaac 180
 aaatgaacat aaatcaaac taaacaaat aaaatcttag aaaa 224

<210> 29984
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H3

<400> 29984

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 ctatactgtc gaatcacatg acatatcttc cggatggaaa ttccactggc acaagtcctt 180
 gggttctgtt ttggtaacaa tgggtgtggag ctatttatag tacgctaact ctattgtaca 240
 acacgaacac gcacttacgg aaattcattt gattcgtatt cttttcacia aaaagaatat 300
 ctagggtttt aacttgtgtt ctctgaccac ggaaaacgat gaaaacaaaa acgttgtgtg 360
 cc 362

<210> 29985
 <211> 326

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-F8

 <400> 29985

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 tgtcccagaa ttataattat tcacttcaac tttctgcgtc tgctgagtaa ggatgtacca 180
 gtgttggagc tgggtcatta tgggatttga gctcacttgg tttctgcgtg aatgtcaact 240
 gctgcagttt ttttggtcac tggatgactg ctgctgctgg ctggtcaggt ttgatatcga 300
 gaaatatcca ttgcattctg cgtttg 326

<210> 29986
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-E12

 <400> 29986

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 cccatcggca cggcggcgca gggcacggac gacaaggact acaaggagcc cccgccggcg 180
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 ttcgtcgcca ccttctctt cctctacatc tccatcctca ccgtcatggg cgtctccaag 300
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 tcttcgcctt cgtctact 378

<210> 29987
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-E2

 <400> 29987

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tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120
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 caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtgggg 240
 gtgggagtgg aggggggtgga tcgggtggtg ggagtggaag cggaggatct 290

<210> 29988
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E3

<400> 29988

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 tgcattggat atccttagcc ggagagggcg ctggtggtgt agacgaggag ggcgccgccg 180
 ccgaggatcc cagcgagggt gacggcccag atcagaagcc cagtgggtcc accgacgtag 240
 acgtcgccgg tgggagacca gtcacccctg ttgtagattg ggctgtatcc gtcgacgttc 300
 gcgccgtact tgtcgacgaa ctggtacacg cccttgccct tgccctttct cccgttggcg 360
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 t 421

<210> 29989
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E4

<400> 29989

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 tgagatatat catgtgggcc gtactacgga tgctaccatt catgctatta ttcaaattct 180
 agttctacta ctagctctac tatcgtctat gctatcttgt agttaattgc gttgtcagtt 240
 gc 242

<210> 29990
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E5

<400> 29990

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ttaggtacct tagctcgact aaagaagtaa catgttatgc cagcatgac gacttcagta 180
ctctccaagt ttctagaatc gacttgTTTT ttagctatcg gtttcatttt ggtcgatttg 240
ccaccttatt cgatgatcgt tccttagcta taatgctttt gtaatggctt tactgtgatg 300
cgaaggctca cccgatggcg tgtaatttga gcacaccaag cttatgcttt ctttctgaaa 360
aggtgggagc ctttctattc aaaaaaatt gggatgtagg gcctgaattt tttttttt 418

<210> 29991
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E6

<400> 29991

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tttgagtctg ggagctggac gtttcattag ccattgtgat tacctgtcct gcaattgtca 180
tatgggacag tctgtttgat attgaaaaca atgtggagtg tgcctagcaa tcccatgacc 240
tgtgtctctg aaagcacctc gcagaggaag aatctaaatt cgtgtattgt tgtccgttga 300
agtgccttaa cttgtggcaa gagaaatgca gctgatgtat gcagactctc cagttgacat 360
tgagttctta cctg 374

<210> 29992
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-E7

<400> 29992

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gactcaccgc cgccctcccg cccctcacct gcccgcgga gtgtcggagt aaaccctacc 120
ggacctatcg tcacgcgact gcgggagttg cttgcttctt ctgccgtctt ctcgctccgt 180
cccttcgcgc catggagacc tcgctgcgtt tgcgcagtgg cggcggcctc cgcattcacg 240
ccaaggagaa gctgcccctc ggccacagct cgctgctgca ggctcatgcg gagctcgacc 300
tncacacaag ccccgccgga gttactaccc cgagttatct cgctctcttt gtcaggcact 360
tctac 365

<210> 29993
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E8

<400> 29993

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ctggacgtga acgccttcga gtacctccag gagaagtact cccgcgagaa gatgagcatc 180
cggcacagcg tggggcggcg cggcgatcgt cgcgcgacgc agtggctggg ctaggccgtg 240
cgtgtgtgtg atggtttgtg cctttggctt catcagcgac acggcgtggg agttgtttgt 300
gcttggtttt tcgtagagga gaggagagag ttgacatgat ctttcccgtg gcatgtgatg 360
ggtggctctt ggtgtaacgt tacgtactag ctgcactgaa ctcggtgcat 410

<210> 29994
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-E9

<400> 29994

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ctagcagcag cactcttctt gccagtggaa atgtgtcagt cacacaaagc ctgagtgtca 180
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atggtgaaga caggctggag caagggcaaa tcagcaactt tccttctggg ttgtagtgcc 300
acctgtgtct atggngttgg ggttgctctt tcagcgtgct acaggcaagg cgtttgtatt 360
cttgttcttg aacattttca cttctgcttg cctgctaata agttgtgtac actggtagtt 420
gggttttg 427

<210> 29995
<211> 381
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-F1
<400> 29995

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cgaatacact tccgtcgcgg gctttgggtc agtgcacacg cgtgcaagat ggttcaacga 180
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ggacaggttc aggtccttca agaccgaccc gcgcagcgag gagttctact ccctcccgtt 360
caaccctaac aaattctttc c 381

<210> 29996
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-056-Q1-K1-F11
<400> 29996

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 cgatcgaccc ttcaacctcc tcgttatcca ggaggcgctg gggagggcgg agagcggaga 240
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 gggagacgac cctctcgatc ctgccgggtg catgctggac cttaaactca tttatgcccg 360
 ggaggatgct gcactcaggc aagcagagat tgaagctgag aaaattggtg ttggtgtcac 420
 ccataagct c 431

<210> 29997
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F12

<400> 29997

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 cttgcccaaca aagcgcggcc ccaatgttgc ccgggacacc ggcagattaa aaaaccacc 180
 gttttcgccc cggcaccgtc tcgtccggg agatacgcaa gtaccagaag agcacggagc 240
 tgctgatccg caagctgccg ttccagcgcc tgggtgcgtga gatcgc 286

<210> 29998
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F2

<400> 29998

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 tcgagacaac agcatgctgg cgccaagttt gagggcagca ttgggctact atcagagaaa 180
 ccaaataatc ccatacctaa ctgttcattt ggaagttact catcatgaca agtgccctgaa 240
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atggaaagat gaagttgcc aattggcctg aggagattcc tttctccagc caggaaaaat 360
tctgaacatc aaggagtttc tggttgcaag tttcactatt taaaagcagg tatgttgctt 420
gtg 423

<210> 29999
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-056-Q1-K1-F3
<400> 29999

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gactcgttgc agtaaccagg tgcaagctga gagaatattg gaccttcaga aacggcttag 180
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gagcacaacc ccagttgata agctgagatc acagttggat gatgctgtag cgagcgagtg 300
ccccctctgc ggtgatttga tgatcaagga gatttcacag ccgttcattc ttccccaaaa 360
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<210> 30000
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-056-Q1-K1-F4
<400> 30000

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ttcaagatct tctgccgcgc caacgagaac tactgcctgg ccgtccgcga cggcgccgtc 180
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agcaccgggt tcaaggacga ggaaggcatg ccggcggttc cgctcgtcaa caaggccacg 300
gggctcgcaa tcaagcactc tctcggtcag tcccacccgg tcaagctcga gcctttcaac 360

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373

<210> 30001

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-F6

<400> 30001

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aaaggttggt ggggtgtgata ccagtggaga tggcgtaaag ctgacactgg agcctgcagc 120

tggtggtgag cagaccatcc ttgaagcaga tgttggttctt gtctctgctg gcagaagccc 180

atttacttct gggattgggc ttgaaactct tgggtgttgag acagacaagg ctggcaggat 240

ccttggtgat aagcgcttca tgaccaatgt gaagggagtc tatgcaatcg gngatgccat 300

ccctggtccc atgcttgccc ataaagctga agaggatggg gtcgcatgcg tagaattcat 360

tgcttgaaaa gaaggccatg ttgactatgg cacaagttct ggtgtggtct a 411

<210> 30002

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F7

<400> 30002

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cgatgaagtg ctcccgtagg ttgtagtggg ctattcaccc cccccccccc ctctaggcga 120

ctatcaattg gtatcaaagc ccggtgcttc attagagcct aaccgctcga agtgatgtcg 180

ggagatcacg ccaagaagga gatggagacc ggcgaaaagg ttctagatcg cga 233

<210> 30003

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E11

<400> 30003

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tcttctccac gcaggaccac gccgtcgtcg tcatcgcgcg cgactcggcc gccgtgttcg 360
cctggaaggg ggagaccctc gaggagtact ggtggtgcac cgagcgc 407

<210> 30004

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C7

<400> 30004

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gtgttgttca agagagagta ccaaattctc aaggagctca gtctgagaat gatcctaaca 240
ataccactat atttgttggg gggcttgacc ccaatgtcac tgaagatacc ctaaaacaag 300
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<210> 30005

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C8

<400> 30005

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gcggcaggtg gtggcgggct tctcaccct ctccatgttc gtcattgctg gcaacatgat 180
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<210> 30006
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-056-Q1-K1-C9
<400> 30006

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gcaag 425

<210> 30007
<211> 293
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-056-Q1-K1-D1
<400> 30007

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tgacatctta gtatattaca cgagtaaagg aacaaaggag tgcgggaagt gggccagata 180
agcaaacaat tcttttgaat ccatgtatca tcacgcagac atcttagacg ctaggaccga 240

gncttgccctc aaatgaaagc cgatgaagaa aatggacagg aacagaccat aat 293

<210> 30008

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-D11

<400> 30008

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gagagaagcg cgcgcggcca tggcgccag cgcctctcgg ttcacaaagt gcgtcacggc 180

cggcgacggc gccgtgggca agacatgtat gctcatctgc tacaccagca acaagttccc 240

cactgactac atacctacgg tgttcgacaa tttcagtgc aatgtagttg tggatggcac 300

cactgtgaaa tttgggcctt tgggataccg ctgggcagga agattacaac cgnctgaggc 360

ctctaagcta ccgaggtgca gatgttttcg tgcttgcatc ctcacttggt agccgagcta 420

gctatgaaga tatcatg 437

<210> 30009

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D12

<400> 30009

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cggcgctcgg gccgaagctg gaggtgtggc tggagggtga gtcgcaccac ttccaccga 240

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cggcggtggt ggagaagcac gcggagcagc tcgccaaggt gtcgcacgtg tacgaggcgc 360

acctggcccc caacaagtac ctcgccgggg acgagttcac gtcgcgcgac gcccaaccacg 420

cg 422

<210> 30010
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-D3

 <400> 30010

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gcaggggggag gagatgaagc tgaagcagct ggagggcctc ttgggtggcc tgaccagtt  180
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gctctacatg acatgttctt ggtattgata ttgaccaca gtcacttgaa cttgctcaag  300
aaaatgctgc tgatctggag ctggacatcg atttagtttg gtctgacata aagaacttaa  360
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catatacctc ttttg                                     435
  
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 <211> 342
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-D4

 <400> 30011

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ggttatttag gtgataacga tttgggggtcc ggcacattca ccagtttggc cagcttttag  180
ccttgcttct agcccatggc atacttctgt gtccaggagc gtgcggtgga ctcatacttg  240
gccctgtcgg tcttgtagat gtgagcaatc tcagggacaa gaggatcatc anggtttggg  300
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<213> Zea mays

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ggcggagcgg aggtagagca tagggagtga ataaccgcta ccttatttca tttctatgat 180

gtatctatct aatttgggtcc ttccctgata atgcacgacc cgtagtggtta aaaaaaaaaa 240

gaacatgaaa ttgaaataga aattgaccca aagataattg aacattgcat aagaaaatgc 300

taattaaact ggaacttgac ataaaaatta aaaaaggggg ggccccctt 348

<210> 30013

<211> 380

<212> DNA

<213> Zea mays

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<400> 30013

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ggttcagtgg aagaaatatt cgaggaggga tctgcaatgt tggaagaaag gttgggaagt 120

aattttccac caaaagcaaa tctgcctcca tttcgctgtg caatctgccca agtggaccaa 180

gagccattcg aaggtttaat gacggacaat gtaggtggct gctgctcaac cccatcaaca 240

ccatgggggtg gtccttatct ttgctcacgc tgtaagaaaa agaaggacgc gatggaaggt 300

aaacgatcga atcggtcaac gacgtgcaag tgaaagttct gataggaatac actgggactg 360

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<210> 30014

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D8

<400> 30014

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ccttgatgaa ccaatatgtg aacaagaagt tcagcaatca gtacaaggct acgatcggcg 120
 cggatttcct caccaaggag gtgcagttcg aggacaggct cttcactctg caaatatggg 180
 acactgctgg ccaggaaagg ttccagagtc tcggcgttgc attctaccgg ggagcagatt 240
 gttgtgtcct agtctatgat gttaattcta tgaaatcatt tgacaacctg aataactggc 300
 aagaagagtt tcta 314

<210> 30015
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30015

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 gggagagacg cagaggagac agctgctgcc tggctgagac gatggccgga ggcggcgacc 180
 actcccagac gaacggaggc cacgtcgacc agagggcctt ggaggagggc aggaaggagg 240
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 tcgaggagat cttcggcacc tacttcctga tggtcgcggg gtgcggcgcg gtgacgatca 360
 acgcgagcaa gaacgggcag atcacgttcc cgggcgtggc gatcgtgtgg gggctagcng 420
 tgatggtgat ggtg 434

<210> 30016
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E1

<400> 30016

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 acaaattcct tcgcattcca tgcaccacct tcatgttccc cacatcaaaa tctgggtgaa 180
 attccgagat ccatcacata tcagtacata atatgatgat cccacagctg gagattagac 240

agagatcttt cgaagatgct agctgcaagc tccaactgct atgatatgga caatgccaaa 300
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<210> 30017
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-E10
 <400> 30017

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 ttttcacaac ataaactcta cactgccgcc tccacctgtt ctgaatcgtc tgcctcctcc 180
 agctattcct tcagcagtta ccatcaatcc accagcaagt tcaagtcaag caattagctt 240
 tccaactggc cgaaccagcg gcttgaacta ttaccagacc ctgatccatc agcatggagg 300
 ggagaggcat gagccacagc cacttcaaca gcatggaatg cactttccaa tgcacatcgc 360
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 ggat 424

<210> 30018
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-C5
 <400> 30018

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 gaaagacgtg ccgacttcta taaccaacca tgggttgaag acgccgttat aagatacttg 180
 aaccgcaaac cggctaacga gggcctaggt ggtggtgctg gtgggttcttg aagcgtggat 240
 ttctcctagc tattttagtg tataaacaaa ttatctgttc tgtattggca gtaaatttc 299

<210> 30019
 <211> 327

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-B1

 <400> 30019

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 agcattgact ctgcttctcg caagcagaga cccaagtcta cctgcgcaag gcgctctagt 180
 tgcccccggt gttgctctac ttacgtctc cacgggactc gccgtatggc ccctagtggc 240
 gtacatgaga aagatatggc gtatactgct aaaatagtat tagcacaata tatatatagt 300
 gtaatagaag aaacatgcaa tgcgagc 327

<210> 30020
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-B10

 <400> 30020

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 gccgacgccg gagcgtccaa gacctaccg cagcaggctg gcaccgtccg taagaacggc 180
 ttcacgtca tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggc 240
 aagcatggcc atgccaaatg ccactttggt gccatagaca tattcaacgg gaaaaagctc 300
 gaagatattg atccttcgtc acacaactgt gatattccgc atgtgaaccg tactgagtac 360
 cagctgattg atatatcaga ggatggattt gtgagccctc ttacttcaga tggcaacac 419

<210> 30021
 <211> 124
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-B11

 <400> 30021

gaaaaagata ttctgcaa at gtaacagtga acagttaaca atcgtggtgt gttgttgcat 60
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 attt 124

<210> 30022
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-B2
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 ggcttccaca ttgttcaagg accagttgtt ttagggggcg ctttctagcg gagggtcgt 180
 ttttcacaga tcacctctca gggggtttat ctgttttttg agcctcggct gccatcactg 240
 gcatcctgcc ctagatcca gacactggtc cttgccctta cagtcataag ttctttttaa 300
 gttgccatag tgtccaggtc ctctttccgt ttactgttgc ancggttggg gatccattga 360
 cagctcttga cta 373

<210> 30023
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-B3
 <400> 30023

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 gagtatggcc ttactgccgc cgagagatca agtctcaggc cactgcttgg tgaaaacgag 180
 ccacggacat cggactaaaa tctgcgcaat ccataaccat ttgttacttg gaagggaat 240
 cttagggtat gtttgttttc ctcttagatt atataaactg gattatagtg aaaataagct 300
 aaaataagct agcattgggt aatttatctc agttgcatgc gaggttgcaat cttagggtac 360
 gaggtacaa tatcactttg gaaggctaaa atagggtatc ataattcaac ttatataatt 420

t

421

<210> 30024
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B5

<400> 30024

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaag aaaaaaagga 120
ataaaagaat aaaaaacgag agaatgagaa taaaaaaggg gggctatagt gaaacgataa 180
atgcaatata ctggccgaag gtaaacaatg tattgactgg gaaaaccc 228

<210> 30025
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B6

<400> 30025

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agattgtatg ttgttgatg aagaggagaa gttgcagtta attgagcagt ttacaaagtt 120
gaaatctcat gttagtttga ctgctgatct ttggctctct aacaaaaacc ttggatatct 180
tggtgtaaca gcacatttca ttagtgaaga ttttgagttg cacaaaaaga ttattgcatt 240
caagaagatt tccttccac atacatctta tgctgtgcaa gatggtatta cctcttgttt 300
gctagagtgg ggattgggtg gtgatttggt taccctgact ttggataatg ctagtgttaa 360
caatttagca a 371

<210> 30026
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B7

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa cagggaacc aaaacaaagg 180
 aaccaacatc tgtaacacct ccttgaaaat caaaaccctt ttgatacgcc caaaaaaat 240
 aaaacacaag cccggagttt caacccaaat aaattgaaaa ctctttatgg aaaaaaacc 300
 aaaaacagga gaaaaaatgc acattatacc caat 334

<210> 30027

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B8

<400> 30027

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 cggagcaggc gggaaggcga agaagggcgc ggcggggcgc aaggccggcg ggccgacgaa 120
 gaagtcggtg tcgcggtccg ccagggccgg gctgcagttc cccgtcagcc gcgtcgggtg 180
 gtacctcaaa aagggccggt acgcgcagcg tgtaggcacg ggtgcccccg tctacctcgc 240
 cgccgtcctg gagtacctcg cggccgaggt gctcgagctc gccggcaacg cggcaaggga 300
 caataagaag acgcgcatca tccgcgcgca cgtgctcctc gccatccgca acgacgagga 360
 gctcgggt 367

<210> 30028

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B9

<400> 30028

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 ggcaacaatg tgtatgggcc aaatcaattt cctgagaaac tcattcccaa attcattctt 120
 ttggccatgc aaggtctgcc tcttccaatt catggagatg gctccaacgt caggagctac 180
 ctgtactgtg aggatgtggc cgaagctttt gaggtgggtc ttcacaaagg agaagttgga 240

catgtgtata atattggtac tgtgaaggag aggaggggtga ttgatgtggc caaggacata 300
 tgcaagctct ttggcttggga tactgagaaa gtcacaaagt ttgttgagaa caggcccttc 360
 aatgaccaga ggtacttctt agatgatcag aatctaaaga gattgggatg ggcagagcgc 420
 acac 424

<210> 30029
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-C1
 <400> 30029

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 caccgagtac atgccgatcc cctatctggt atggtgttca ccagtgaatc tatcctcacc 120
 atctgccgag agggcctcat caaaatctgg gttcgaccag agcagagcga aaacaatcag 180
 caatcgaatt ctcagaatt tgctttaggc cctgcttcga aggatagggc gatcacatct 240
 tccaataaag caagtagctc cagctttaag aagctgccgc ctgttcttgt cacatgatga 300
 atcaacggga tggttcttgg ggatatttct gcttcacgtg gcattagtgg tggatatgaa 360
 tcttactcca tggttgatgg ggatgaaact ctcatatgga gtctgcagac tgcaagtaat 420
 gaaggtgagc atttgat 437

<210> 30030
 <211> 258
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-C10
 <400> 30030

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 cctttttttg attcgatgct gtggttaatta tagtggtcgc ctcttttagat gttacacgca 120
 aaaaatattg gcggtgatgc agatatttat tgatttggtc tggtaattaa taagaaccct 180
 caagctttgg ggtgttcacg gaaagggtga gttgatgcgg tgaaaacagc acgtgaaagg 240
 gtaatgagag atcgatcg 258

<210> 30031
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-C11

 <400> 30031

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 taccagtggt gacctggacc gacttaaatt gtcaaccgcc ccctttatgg aaaggaactt 180
 ggaattttctg attgggtgca tggatgatct ttcattcagag cagaacaagt tccaatatta 240
 taaccgcaat ctctcaagac aacagtcaca gcagcaggca tggcttcaaa agagaaggca 300
 ggagaacatg gcgaggaaag cagctggtga ggagccacta ccagaagaag atccatccaa 360
 tcctatattt aagcctattc ctgagccctc acgattggag ggctatctag taactaatca 420
 gatctgcagt tact 434

<210> 30032
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-C2

 <400> 30032

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 acaaccaata tgatatagtg aaattctgta aaaatgaggg cttgttctt ctactctgatg 180
 aggtatatca agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg 240
 caagatccat gggatacggc gaggatgatc tccctctagt atcatttcag tctgtctcca 300
 aaggatacta tggagagtgt ggtaaaagag gaagttacat ggagattact ggcttcagt 360
 ctccggtaag agagcagatc 380

<210> 30033
 <211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-C3

 <400> 30033

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 agcaccagcc tatctatctg agacggggcat cggcggcgga gagacctggc gcgcggcgga 120
 acgctgaggt tatcttgtat tctcgtcaag acaactctct tccctcagag cactgaacaa 180
 tcattgtgat ttatgactaa ttctgagtgg tgaaagaatt aagaaaatac agaacaccgc 240
 aatggctgtt agatgctcct gtactgctct tttccctcta gtcttctgtt ttatgatctg 300
 tcagctttgc tatggcactg taactgatat ccaatgtctg aagaagctga aggcattcagt 360
 tgatcccgac aataagttag aatggacatt caataacaat acagaaggat ccatatgcgg 420
 gttcaatggg gtggagtgtc 440

<210> 30034
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-C4

 <400> 30034

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 tctgggtccat tctgctggct tcaatcttct cgctcctttg ggttcggatt gatcctttcc 180
 ttgcgaagga tgatgggtccg cttcttgagg agtgtggttt ggattgcaac taggatgtca 240
 gtgcatcagc tcccccaatc tgcataatgct tgaagtatat tttctggtgt ttgtcccat 300
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 cctacttaat atctgagaga attactgggg gaaaat 396

<210> 30035
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-A9

<400> 30035

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gtgtacgtcc ccatggacag ggaggaggac ggggtacctgc gtcctgcgg cgacatgccg 180
tggctggcgc tcccctacga cggcgcgccg tcgcgcgcgc tggcgaggta cttcgacgtg 240
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ctgctgcang aggcggagga cgaggcggcc aaggagtacc cgcggtcgct gcgccaccgg 420
ggccaccgtc acgagc 436

<210> 30036

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G12

<400> 30036

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agcacgcgcg gcgtgcgtac gagctgttcg acaaggaagg aaaccgaccc atcgtgatcg 180
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actggatccg gcacgccgac gggaagctga gcttcctggg gttcataaag ctcttgacg 300
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<210> 30037

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G4

<400> 30037

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accgctgcgg caactccgcc tcccgccgac ccgggggatcg cctgacaaca ggcagcgaaa 120
 aggggcgag ggtttgcccg ccaagatgga ggacgtggac gtctcgcggc agctgaagca 180
 gatgacggac ttcacccgcc aggaggccgt cgag 214

<210> 30038
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-G5
 <400> 30038

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 ctctctctcg ttttaacaa aatctgtctc tgcacggggc gtcaacggca ggcggaacca 120
 cacgatcggc ggcggcgggc gggagcacct ggacttggcg gtggagtctg tcatacgctg 180
 ggcaggcacg caccatcttg tgcaagcgac ctcaattgag tcctacctcg tatgctagca 240
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 aaaaagaa 308

<210> 30039
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-055-Q1-K1-G9
 <400> 30039

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 tagtgtgtcg cctaagattg acatcttttag cttcggcgtc ttgatccttg agatcgtgac 180
 caggagaagc aactgcagct ctgatgacca cagcactgtg aatctcctaa gtgatgtctg 240
 ggatcactgg aagaaagga cgatgccaca aatgcttcac cggtcactgg atgagtttgc 300
 tcgaagccaa gcgctgcgat gc 322

<210> 30040
 <211> 214

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-H10

 <400> 30040

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 cttctagaac aagactgcan ggggaggggg aagaccaagc gaaaggggaa ctagagcaag 120
 atgggcgggtg cactgctgct tgcgtccta ctcgtatctg ctgctgacgc ccctcaggta 180
 cttggagttg gcaatggaga caatcacatg agaa 214

<210> 30041
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-H11

 <400> 30041

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 acagtgcctt gctacccttg ctaagggcat tcatgacaac ttcggcattg gtgacgggtct 120
 gataacaact gttcatgcca ttactggcac tcatactact gtttactgac cctcactcta 180
 agactgtaga agtgagcagg ctcccatctc taacatcatt catagcag 228

<210> 30042
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-H12

 <400> 30042

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 tgcccattgn gcctgtctct atatcaccat gcgtgtgagg ctctactcct aagtcgggttg 120
 gtgtctggag ggatgggacc aaacagaaaag gagcaagaac tttggggcgc aaggactgcg 180
 ctacgatctt gagatatggt ccatatggat gtcattgataa cgatgcatgt acagaaaacc 240
 tgtccgtgcc tattcagtaa tgntcgtgat gagtatcttc catcaaacac atgtaaaaat 300

tctaaaggta atcttgatta gtagcaaggg a

331

<210> 30043

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H4

<400> 30043

cccacgcgtc cgcattgttg gacgcgttcc cctcctgcac gcaacctcat ctcgccgcc 60

agatccagga tggccgtcct ccttgagacc ttgectcccc gagggtcttc ggtgagctac 120

tttgtttcga tttatcagga aatccgtttg cttcatgttg tgcaggctca tatctgattg 180

ctggattcgg caaaccgcgc ttggatcctg tatcgatctg gagaaatcgc gaagtcgtcg 240

tcgttcgggtt cggagcggat ctgaggcgac gatagatgga ggcggcggga tctctcggtc 300

tgcagtctcg ctccacctcg atggatgatg tctctgcgct gataattatt ggatcaattt 360

cgataattat tagtagatct atga 384

<210> 30044

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H5

<400> 30044

agaacaaaaa aaaaaaaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60

aggtttttaa gaaggggg 78

<210> 30045

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-H6

<400> 30045

cccacgcgtc cgcccacgcg tccgcccacg cgtncgtatc aacgtgcca ttgtgccgcg 60

ctctaatacac catgcgtgtg aggcctctact cctaagtcgg ttggtgtctg gagggatggg 120
 accaaacaga aaggagcaag aactttgggg cgcaaggact gcgctacgat cttgagatat 180
 ggtccatatg gatgtcatga taacgatgca tgtacagaaa ccttgctcgt gcctattcag 240
 taatgtcgtt gatgagtatc ttccatcaat cacatgtaaa 280

<210> 30046

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H9

<400> 30046

cccacgcgtc cgcagggaca acaagaagac tcgcattatt ccgcgccacg tgcttctggc 60
 gatccggaac gacgaggagc ttgggaagct gctgggcggc gtgaccatcg ctcacggcgg 120
 tgtgctcccc aatatcaacc ctggttctgct gccaagaag acggcggaga aggcgtccag 180
 tgtggggagc aaggaggcaa agtcgccccaa gaaggccgcc aagtccccca agaaggcata 240
 gactgactgt ctggagtgat ctgatgttta gcaggacctt gataccagta tgcggtgatg 300
 cgtaggctgt agatgggtcg aatgtgcttg tgtgtgtatg tgccctgctg caagttgccc 360
 tttgctattt aaaatggaag aagaaatgcc ttgtttctc 399

<210> 30047

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A11

<400> 30047

ggaggaagga gatcgcgagc agccggagcc ggaggccgag aggatgaaga cgttcgaccc 60
 gtggccggtc ttcttccgcc gggagtggaa gcgcaactgg cccttctca cggggttcgc 120
 catcaccggc ttcacatca ccaagatgac ggccaacttc accgaggagg acctcaagaa 180
 ctccaagttc gtccaggaac acaagaagcg ctgaccaacc gggagtcgtc cgaatgcct 240
 gcggatgaaa aattagcccc ctatttatct tgtctttttt tttatctaga tgcgtgcact 300
 ctattgtaat aatgtaataa gaggcaattg gattgatcca acagcaaccg gcttctgatt 360

ttgatccgct tcgctgacat aatatgtgcc ttttttctg

399

<210> 30048

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A12

<400> 30048

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aggcctacag gatgaagacg ttcgaccggg gaccggtctt cttcctccgg gagtggaaac 120

gcaactcgca ctttcctcac gctgttcac atcaccggct tcacatcac caatatgacg 180

accaacttca ccgaggagga cctcaagaac tccaagtctg ttcaggaaca caagaagcgc 240

tctccaaccg ggaatcgctc aaatcgctg ctgatgaaa attagcccgc tatttatctt 300

gtctttattc ttatctagat gcgtgcactc tattgtaata atgcaataat aagcaattgg 360

attgatccaa caatatccgg ctttttgatt tgatccgatt cccttacata atatgttcct 420

cttttctt 428

<210> 30049

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A2

<400> 30049

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agggttttgt ggaggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg 120

gcttgccctg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct acggcgagat 180

cctcgactcc aaggtcatca ccgaccggga gacggggagg tctcgcggct tcggcttcgt 240

taccttctcc tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct 300

cgacggccgt aacatcaccg ttaaccaggc ccagtcccgt ggcggtggcg gtggccgcgg 360

tggtacggc ggctgtcgcg gc 382

<210> 30050

<211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-A3

 <400> 30050

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 catgtagtgg taggcccttg gccactaag cagaagaact ctaggccttt ttttttgtcc 120
 cctcgtgact gtcttgctg gaaatttttag ataggtggaa gtggcggaac cctccgattt 180
 gtctt 185

<210> 30051
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-G11

 <400> 30051

 cagcaagccc gtccctgcta ttctggagat cccatccaag gaccatccat atgatccgtc 60
 gcacgactct gtgctctctc gagtgaata tctgttctct gcagaatcgg tggcgtctga 120
 taggcgatga aggcacctt gcgtagcagt acccttcgat gcatctattt tgttatggta 180
 ttgaaaagaa gatggcacgt accattgggt gcgagcgagc cagcatgaat aataatgagc 240
 ttgcaaacia tgattgggtg aactaaacca acacaatttt tttttaataa atgggttcgaa 300
 tga 303

<210> 30052
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-A6

 <400> 30052

 cccacgcgtc cgcccacgcg ttcgcaattg tagaacttgc agaggatagg cactggagag 60
 tccggcttgc aataattgag tacatcccat tgttggcgag tcaattaggt gttgggtttt 120
 tcgatgacaa gctgggggag ctctgcatgc aatggttgga agacaaggtc ttttcaatca 180

gagatgctgc cgctaacaac ttgaagcgcc ttgcagaaga gtttgggtcca gagtgggcaa 240
 tgcagcatat aatccctcaa gtgctggaga agatcaacaa cccacactat ttataccgca 300
 tgacgattct gcaagcaatc tccttgctag ctctgtcat ggggtgcagag atcacctgtc 360
 aaaagctgct tccagtcgtc attaattctt cgaaggacag ggtttccaac atcaagttca 420
 at 422

<210> 30053
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A8

<400> 30053

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 agaaggggtgt gcgaaggaaa gaagaggcgg tgggagagga gggcgacatg gagaggccgg 120
 caccggtgag gaagtctcac atgtcgacgg cggacctgct gatctggccg gagggggcgc 180
 cgcaggagtc gcccgcggg gccacgccgc catccaaccg ccggccgcat cagccgtcgg 240
 aggcgctcag gaaggtggtg ttccggcgggc aggtgacgga agaggaagcc gagagcctca 300
 acaagaggaa accatgctct gtcaccaagt ggaaagagat gacaggaagc ggcataatttg 360
 ctgctggggg cgaggctgaa gaagatgaat c 391

<210> 30054
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D5

<400> 30054

aattagaaat tagtgatgac ctaccattga agaaatggac ataccatgat cataaggggtg 60
 atttgctcag ttctgtcaca tctgcaaata gtgctatagc caaagaaatt aatgaagtgc 120
 tatttaaadc attgcctgct gatacacctc gccttgattt gtttgcacatc agtcaccttc 180
 tgagccaaag gaagagtgat ttgattgtca aagaaaggct tggagtatgt aaaaccaggc 240
 tgagggtgaa agagcagatg cttacaatga agttcaaggc atattgtcac ttgtggaaag 300

acgtccaact attttctgca aataaacagc gttcaaagtc taataagcgc actgatcaga 360
gcaaccgaac a 371

<210> 30055
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D6

<400> 30055

cggacgcgtg ggcggacgcg tgggaggacg cgtgggagca agtggttgcc tccgggggag 60
ccacaaacac acagacacca tggccttccc agggactccg gcgaggaaga tcgtaccagg 120
cggcttcacc gcagcacgaa ccgccgtggc cagcggcggc gctcttagct tcgacctgga 180
cggcgccggc gactttttct ggggcctgtg gcagctcatc aaggcgaagg ccgccgaggc 240
agcggcctac ctgctgccc tcttcggggc gctggcggag aaggcggacg agatcttccc 300
gccggagacc cgctcggaga cgctccggca gtggatgcgc gtc 343

<210> 30056
<211> 186
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-D9

<400> 30056

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aaacttanag ctgctcagga agctcgtgct ccccgacggg tccttgctac gcacgcagct 120
tagcgggagg cacacacgcg actgactctt atgcgaccca caacgcgacg gctagagttt 180
gctaag 186

<210> 30057
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E1

<400> 30057

cccacgcgtc cggagcttaa tggcgatatt tttggagcac gtgcagaata tcagcgggtg 60
tattcagatt tatgccctgg ctttctagag gccattgtga agcattctaa tatggaacac 120
cgactgggag ataaagaatt gtcctgttca gtttatgaaa aggacatcgc tgctgagaag 180
ggaatggaac agagccagct cttaccaaca ttgcttattc agtactaccg cttcttattt 240
tcggtcacat tagacttggg aaaggcaagg gagatattaa ctgtgctgca tgagcagttt 300
aatttaacaa aaccagtgtc tgaggctgtc atccatctag agtcgatttt ttcattgcga 360
aagcgtattg aaattt 376

<210> 30058

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-E10

<400> 30058

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gacagataca tatatatcga tgcattattg natcattttt tctagtttca aggaatcata 120
attattttct atttagaaat ctttggttgg catttgccca atttaagctc aaattctgtt 180
ttgtgcactt attaagttgt ttctgaatct tgcagaagca tatctacaga gaggagtcac 240
caagcccatt ggacttccga tacgcagctt tttctaataa aatggaaaac gaattgtact 300
ggaattgttt gtgtactttg gctcattcgt ccgaccgtat ctttgtaatc agtgagaatg 360
gcaagcaaat gtccatgaca tctattgtta ttgtaaaaac atgtgtttata accctgattc 420
tcagattaca tttat 435

<210> 30059

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-E11

<400> 30059

ctcgtcggng cgcaacgcca ccgncgtttc gagcgggtggg tccaacgact cgagcggcac 60

ggttcgacac ctgctgtac cagcagcgcg ccgagggcct tggaggcctg ctggagttca 120
 gcgcgcagct gctgcagcag gagcggtagc aggagctggg catcctgctg aagccgttcg 180
 gccccgagaa ggcgtcgccc agggagactg ccatctggct caccaagagc ttcaaggaga 240
 cggcgtcata gcggagggag ggagggagac gtagctgccca gttttctaac gtgcaatgta 300
 gttcaggtag tctaagctat gttaggaccc cccaagtgtg tgtgctggaa ggaaggcaac 360
 a 361

<210> 30060

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E12

<400> 30060

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 acggcggtgg acccgaagaa gggcatcctg tgcaccatcg cccgcacgc catcggttc 120
 atcgtggggg ccaacatcct ggtggggcgc gccttcgacg tgccgtccat gaaccccgcc 180
 gtgtccttcg gccccgcct cgtcagctgg gagtggggct accagtgggt gtactgggtc 240
 ggccccctca tcggcgggcg cctcgccggc gtcactacg agctgctctt catctgccac 300
 acccacgagc agtccccct 319

<210> 30061

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E2

<400> 30061

gtggtggcgc gcacgggatg cagctcctgg cattcccgtt gcgagacggg aagcgtggcg 60
 ccggcgacgg tgggtcagct ggtggtgcac gcggaggggc aagacctggc gtcgtacagc 120
 gtgagcctgg tggacgggtt caacgtgccc gctgtggtga gcccgcacgc ggtggggcgc 180
 gggcagtgcc cggccctggg gtgcgcggcg gacctcaacg ccgggtgccc gccctcgag 240
 cgcgtgctgg gggccggggg cggcgtggt 269

<210> 30062
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-E3

<400> 30062

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tggacaaggc ctccattctc ggcgacccga tcgaatacct gaaagagctt gctgggaaga 120
tcgacgacct ccaaaacgag ctggagtcac caccatcccc agcttccacg gcctcgctgc 180
cttcgacgcc cagcagcttn cgnctctga cttccacgct tgccgcccta ccatctcgcg 240
tgaaggaaga gctgtgcccc agcgcgttgc ctagccctac 280

<210> 30063
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E4

<400> 30063

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ctgcgcagat tcatcattcc aggcagccag gccctctctt tgctgagccg agatctacgg 120
gaagcccact tgcaggtgct cctcggagga ggcggacaga gatccagcga caacagcagc 180
agcagcgcca cgaacatttc ggctgacct cttctgtcgt cgttcggcct tggcttccct 240
acctcagacg cggagcaagc atccaagtcg actgtttcca ttcctgatga tgctacgacg 300
gtgaaagaag cgcccgtca ggcacggaag ctaagtatcg attcgtcgct cacaagtga 360
gaaagggagc tgaagcgga gcaagccgc g 391

<210> 30064
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E5

<400> 30064

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cgctcatgt tcggcgggcg gcacgagcac tttcccgga cgcttccac gggctccgaa 180

gtgcagtcgc tcgtcatcga gatcatcacc acattctacc tcatgttcgt c 231

<210> 30065

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E6

<400> 30065

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cagcacaagg cgtgctgcat tggacgcac tattaacgaa gtgctgttcc agatcataaa 120

gttcgccaac gagaaaaagg accacattcc tgctatccct gacaggattt tcaatcacga 180

gatcatgac ccaagctcgg attctgtatt tggatggaac acggacgtca ttcgcagagt 240

tctgaatagc gggcaccat actcgctata actgaagacg acatctcagt gggcgcccg 300

attcagatta ttagcgtgct gccgccctct ttggaagacg gctctgctaa ccatcgtggc 360

gaaccatata atat 374

<210> 30066

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E8

<400> 30066

tcgcggacgc gtgggattat aaggcgcgaa tctatccatc tatctaattc actaacgcac 60

ggggatgcgt aacatcgga tgctgcgggc gcttgctctg gcgctcgggg ggggc 115

<210> 30067

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F1

<400> 30067

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ggaaagcggg caaggcacgg ttgctttgtt gttactgcaa gggcacgggc ttttctttac 120
caccaggtaa ggttgatggg cggctcttcta aaatctgttg ggactggaga tctaacaact 180
gcagatgttg agagaattct ggatgcaaag acggatactg ctgcacccag tatggcacct 240
tcttgtgggc tgtaccttgc taacgttaaa tatgatctga atacctgaag acaagtttta 300
tctagtggct tctgttggtg ggccctccaga ttatgtcagc tgttggctat caaaggaat 359

<210> 30068

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F11

<400> 30068

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ggttttatag accctgtgga caccacacan nacctgagcc gattccttgg cgaacattca 120
gtgccgaccg gataaacactc aagagacgcc aaatgtgtgt atgcaataaa tggttgtgac 180
gcataacaca aacgtgttta ataaaaagct gtctgcactc acccaatgtg tgtgcacaaa 240
tcaaaatttc gccctgggtg ctgtcgtgga aatatgttga agagt 285

<210> 30069

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F2

<400> 30069

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gcaaatgcgt gtgcaggccg actaaccga ctactacttt cngatcacca agagcgagca 120
cctcaccgac ctcaaggaga aattcaagat gatgtgcgac atgtcgatga tccggaagcg 180

ttacatgcac ctgacngagg agttcctggc ggagaaccog agcatgtgcg cgtacatggc 240
gccgacactg gacgcgcggc aagacgtggt ggtggtggag gtgcctaagc tggggaaggc 300
ggcggcgagc aaggcgatca aggagtgggg gcagcccaag tcgcggatca cgcacctggt 360
gttc 364

<210> 30070
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-055-Q1-K1-F4
<400> 30070

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ggggtcacg accctgctga caccaggcgg gttctgagcc tctgcctctc cgcttcggcc 120
aagccggttc cggaagacac aagatacggg gtattccgga tgtgaataaa tgtgtgtgag 180
taataacgca gacgtgttta ataaaaagct gcctgcacgc acccaatgtg tgtgcacaaa 240
taaaaatttc gccctggttt ctgtcgtcga aatatgttga agagtgttgt tcatttcata 300
tattactatc tgatg 315

<210> 30071
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-055-Q1-K1-D3
<400> 30071

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cgctgagttc aagatcgtgc tcaccatcat ccgcgacggg ctcaaggctg accccaagaa 120
gtaccgcaag atgaaggaga ggcttgctcg cgtctctgag gagaccacca cgggtgtcaa 180
gaggctctac cagatgcagg agaccggcgc cctcctcttc cctgccatta acgtcaacga 240
ttccgtcacc aagagcaagt ttgacaacct gtatggttgc cgacactcgc tccttgatgg 300
tctgatgagg gccactgacg ttatgatcgc cggaaagggt gccgtggtct 350

<210> 30072

<211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-F5

 <400> 30072

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 tattaccgat cttacataat gcccgacatg aacaatatga cccgccctca tcaactggga 120
 gtggggctac caatgggtat actgggtcgg ccccctaata tgcagcggcc ttgccggact 180
 catctacg 188

<210> 30073
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-F6

 <400> 30073

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 gaccatcatg gggccatcgg acagcccatt tgcaggtggg gtattcttgg tgaacattca 120
 ctccccaccg gattaccctt tcaagccacc aaagggtgtc ttccgcacca aggtttttcca 180
 cccgaacatc aacagcaacg gcagcatttg ccttgacatt cttaaggaac agtggagccc 240
 tgctttaact atctcaaagg ttctcctgtc aatctgtcga ctgtcacgg acccaaacc 300
 tgatgatcct cttgtccctg agattgtcga catgtacaag accgacaggg ccaagtatga 360
 gtccaccgca cgcctctgga cacagaagta tgccatgggc 400

<210> 30074
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-G10

 <400> 30074

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 cgctgcctcc tcgactccga ggacggcgag gggatccacg ccacggggcg tcaacggcag 120

gcggaaccac acgatcggcg gcggcgggcg ggagcacctg gacgtggcgg tggagtctgt 180
catccgctgg gcgtcgtgca ccaacttctc cacggcgccc tcacttcggg cctccctcgt 240
atgctagcac tagcaacgtc gttccgcgcg ccggcgccgc caacgccggg ctga 294

<210> 30075
<211> 395
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B7
<400> 30075

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ggcgggggatg acggcgtcgg tctttccagc gctgctgctg gccgtagcgg cggtgcttct 120
cctaccggcg gcagaggccg tgtggctcga gctcccgccg tcggggacca agtgcgctctc 180
cgaggagatc cagcccaacg tcgtagtgtc cgccgactac gctatcatgt acgagtccca 240
ccccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300
tcataatgaa aatgctacaa cggggccagtt ngcattcacc acttcagaag ctggaaacta 360
ccttgcatgt ttctggatag acagcgtgga gaaag 395

<210> 30076
<211> 394
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B8
<400> 30076

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gccaataaga gctgacatga gagatgcaaa attaggtgtt gggaagcaag aggaagatga 120
cttcttcaca tctgaagaga atgtgcaacg aaagaaattg aatattgaac ttgaggagac 180
tgaggaacat ataaagaaac gggaggtatg caatctaaca cctggtgcta gtttctctac 240
attcatgcag ttttttccct gggctgatgc ttgacatgct ggaacctaga tataatagtt 300
gtaagacctc tataggctag aagtagctgt actttcgtga tgtgaggata gctagcatca 360

accatttaaag agtcttcagc attttgtgcg cttt

394

<210> 30077

<211> 340

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B9

<400> 30077

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ccgaattagt tcaaaagatt gaaagggaaa aaagaatttc ttcttattaa gcaacgaatt 120

gtgaaaatcc aagctcatgt gcgaagtcaa caagtgaaga agcattatcg gaaaatagtt 180

tgggtctgttg gcatcgtgga gaaagttata ttgcgttggg ggcgtagagg ggctggctta 240

cgtgggtttc ggtctacaga aagttcagtg gagagcagca atggcggaac gagtagcagt 300

tcaatccaag ataaagcctc tnggatgat tatgatcttc 340

<210> 30078

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C1

<400> 30078

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cgcgctgctg gcgagccgca gaatgaagtt cttgcagagg atcgcgtaac tgaacgtggg 120

tatctacccg ttcacgtcca tcttcctgat cgtctactgc ttcttgccgg cgctgtcgct 180

gttctcgggg cagttcatcg tgaagacgct gaacgtgacg ttcttgacgt acctgctggt 240

gatcacgctg acgctgtgcc tgctggcggg gctggagatc aagtggtcgg ggatc 295

<210> 30079

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C10

<400> 30079

aatccccgct cgaccacgc cttcgaccac acatacgctt atcctgataa actaaacgca 60
cataacacat accaaaaaaaa cttgcaaatt ttaaaccaat ctatcccctc cacacttcca 120
accccatctt tccccctcat ctctctactc caacgttcct tacctacaat tcaaagccct 180
gtcttactat agatcaaccc tgaaaaaaat ctacctttcc caaacataat tctcatccta 240
gacaaacacc ttcattccacc tctattaaaa gcgataaaaa ccactcctat tt 292

<210> 30080

<211> 288

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-C12

<400> 30080

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aagggatgca cttgatgcc caacatcgga tatgggtccg acaagaagac caggcactac 120
cttcccaaca agttcaaaaa gtttggtgtt cacaatgtct ccgagctgga gctgctgctg 180
atgcacaaca ggacttactg cgctgagatt gccacaacg tgtccaccgc caagcgcaag 240
gagattgtcg agcgtgctgc gcaacttgac atcgtggtca ccaacaag 288

<210> 30081

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C2

<400> 30081

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attgattgac tatggtagtg caccatacca tcaccaggat tgcatactca ctgtgtgtac 120
cacacactat tgcgccattg aagacattta gggacatcga tcgatata catgtgatat 180
ctggagtgtc gcttgcatat ttgttgagct ttgctcgtgt gataactgc atcactactca 240
cgataccttg gaacagcttg cactgatgga tatagggtcta ggtcctcttc cactgtacat 300
gctggaaaga gccgaccaac atgcggcgaa gtacgtaaga ataggaggat tgaactggcc 360

gccagcaata acaacagtag agagc

385

<210> 30082

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C3

<400> 30082

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gaaaatcctg ccggttctag cggcggtgca cctggactcg tcgctgtacg aggatcccag 120

ccggttcaac ccttggagat ggaagagcaa caacgcgcca agcagcttca tgccgtacgg 180

cggcggggccg cggctgtgcg cggggtcgga gctggccaag ctggagatgg ccatcttcct 240

gcaccacctg gtgctcaact tccggtggga gctggcggag ccggaccagg ccttcgtcta 300

ccctttcgtc gacttcccca agggcctccc gatcagggtc cagcgggtcg c 351

<210> 30083

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C4

<400> 30083

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aagactgatg ggatccttgg acttaacagt gcggcgataa gctttcccag tcagcttgct 120

agtcacggga ttattgcaa cgtttttggc cattgtatca ctaaagagca aggtggtgga 180

ggatatatgt ttctgggaga tgattatgta cctagatggg gagtaacatg gacttctatt 240

cgaagtggtc cagataactt atatcacaca caagcccacc atgtaaaata tggggatcag 300

caactccgga ggcctgaaca ggcaggaagc actgttcaag taatttttga 350

<210> 30084

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C5

<400> 30084

gggaatcatc caacaacgcc ttatTTTTTA agctgccctt ttccatctct acaattcgtc 60

tataactgct gctgggtggc tcctaattga acctaatatc gcctgcaatt gcttccgtcc 120

aaggaaatcg aagcaggaga ttataaattt cctcacgcct ctcgactata cctgccactc 180

ttagctttag ttcggtaatg gtacatgtag gactgctgct gtacacttcg actggtcgat 240

taattttatt taataaatgt ggcgcatgga tcggacagtg tgtaactcag aatatggagc 300

atgcaattgc cgtgtatggg ttctagac 328

<210> 30085

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C6

<400> 30085

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gttcccaaaa tggatatcaa tcaaccgtga gacatatctt gacaggcttg cattgaggta 120

tgatagagag ggagagccat cacagctggc tccattgat gtcttcgtca gtacagtggg 180

tccattgaag gaacctccac tgatcacagc caaactggt ttgtccattc tttctgtgga 240

ttaccctggt gacaaagtgt catgctatgt ttctgatgat ggttcagcta tgctgacttt 300

tgagtctctc tcagaaaccg cagaatttgc tagaaagtgg gttccctttt gtaagaagca 360

caa 363

<210> 30086

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C7

<400> 30086

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attgattgac tttggtagtg cagcatacca tcaccaggat cgcagtttca ttgtgtgtac 120

cacacactat tgcgcccttg aagatattta gggacatgga tggagctata catgtgatat 180

ctggagtgct ggggtgcatac tcgttgagct ttgctcgggc gagacactgc atcataactca 240
cgataacttg gcacaccttg caatgatgga tagaggctta ggctctcttg cactgtacat 300
gctggaaaag 309

<210> 30087
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-C8

<400> 30087

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agggttcgtg tccaaacagc cagttcaccc gttccttata ttccgtcggt cagctggcgt 120
cctctctctc tcttgtggcg acgactgggt gacctccccg ccccgccgcg tctacgccag 180
gtgcccaggt cttcctcggg cccttcgccg aagagcagcc aacaggtaag catggctcag 240
aaaatggcaa ctgttgagcg agtagaagag cttctcgaga agctgcgtgc tgcttcctgg 300
gatcatgct 309

<210> 30088
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C9

<400> 30088

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ctcagtgcta cgagaacccc aagcacaagg gcaccgctgt ccccgccgac gaagaagaga 120
tctgcggtgc cactttcaag gtggtggaag ggtctactgt cctgacggcg ctgcactgat 180
ctatcatcat caggcggagg cgatgcgatg atgatgcaga actttgtaca tgcgttggtg 240
gatggtggtg taacatagtg gctgccaca agtcatgctc atgcaaaccg atgaatctat 300
ctctgtatca tcgatctcgg ttgcttgcta gtccagactc cagacatggc tatatatata 360
tagct 365

<210> 30089
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-D1

 <400> 30089

 cccacgcgtc cgcttccatc caagattcat gtcggtgtct tctcagctac catgccgggg 60
 gaggcccttg agatcacgcg caagttcatg aacaaacctg tgaggattct cgtcaagaga 120
 gatgagctca cccttgaggg tatcaagcaa ttctatgtca atatcgacaa ggaagattgg 180
 aagctcgaca c 191

<210> 30090
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-D10

 <400> 30090

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 tttggttctg aaattctgcc caaggctttg catgagcaca atgtacaggc atatgttttc 120
 actgactact gggaggacat tggaacaatc agatctttct ttgatgcaaa catggccctc 180
 tgcgagcagc ctccaaagtt cgagttttac gatccgaaaa caccattctt cacttcccct 240
 cggtaacttgc caccaacgaa gtcggataag tgcaggatta aagacgcgat catttcacac 300
 ggctgcttct tgcgtgagtg tgccatcgag cactctatnt gtggtgttcg ctcacgccta 360
 aactctggat gcgagctcaa gaataccatg atgatgggtg 400

<210> 30091
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-D11

 <400> 30091

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cgtattgtat gttagtgtag gatgcgctgc tcgcattgca ctgttattgt gcttctgttt 120
 ggtggaaata aagattgggtc gaaatctgag ggccaaatca aaaaataaaa atataaacat 180
 aatggaagaa gacacaatat ctcgagtata acgatacaaa atacaagata attcagttcc 240
 ggtaaacagc tatgcctcca ttgaacctaa ataagtcttg atgggggggc gccctcttta 300
 aagaccccag gttacctgcc c 321

<210> 30092
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B6

<400> 30092

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 cactaacacc gagctagcag ctcgctctgt cctgcaacaa tggccgctcg ctctctctcc 120
 cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180
 gggacggcgt ccgcggcggt gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc 240
 gggtagcgcga tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg 300
 ctcaacagcc gcgcgtcgtc ggcggcggac cggcaggcca cctgcaactg cctcaagagc 360
 atga 364

<210> 30093
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-D12

<400> 30093

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 ggacaaggag attgcttggg gggaggagta tgcgaggaga ggtctcgaac atggagaacc 120
 ttgctctgct ttggggcatc atcgccccgg gcgtgtacga gtccatctac cgtgccggat 180
 ggcggctctg gggggacgcg gtcgattgca gctgcgtcca tgtcttctta ctccactacc 240
 ttccagggat ctgcgcttcg ctggcggcgc tcatgttcaa ttgcgtgtac aaggatcaga 300

tcggatatca ctattacgca ccctacgtgg ac

332

<210> 30094
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H9

<400> 30094

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atggctcttg cccacctccc ctctgtcctc ctcttggtgt cgtccgtcgc cgctttcggc 120
gccgccgacc acggcctcac gcacatccac ctgtacgtgc acgagacgta caccggggcg 180
aacgccacgg ccgccgccgt gctgcagtcc ccgctggggc cctactcgtc gttcgggagc 240
atgggcgttg tggacgacga gatacgcgtg ggcccggacc ggtcgtcgca tctcgtcggc 300
cgggtaccagg gcgtattctt cggcacgagc gtgcattctt gcgccggctt cctgtcgtcc 360
atcacgc 367

<210> 30095
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A10

<400> 30095

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ctgcaggaca tctattgttg acttcacag aacctgcaat aaatgtaact atgatctctg 120
tctccagtgc tgccaggagc ttcgtcgagg ccttgtttct ggtaatgatg ccaaggttga 180
tggtggaggc aagcaagatt ttctatcggg agttagtcat gataaaatca taagcgaagg 240
gccatccgat ggacagaatg acatgttgat agatagcgta gttcctgggtg aaaacaacac 300
ttctagcttg agacagtgga gtgtgaataa aagatgaacc ataccttgcc caccaaagt 359

<210> 30096
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A11

<400> 30096

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tggttctggt gaaactgtta agcaggggaa agaaatagtt cagagagctg tcaccaaatac 120
attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180
tgaggctcca tcatccttag gatccataat tgacgcacca tcttcactgc acatttcaag 240
acggctagaa gaagcaagca agactacaga tatagcctcc gtggtactcg ttcggaagag 300
cttggcatgg attacagga tcatcctgct tgtttcaact ctcatagggg tttgcttgct 360
tatgaacatg ccac 374

<210> 30097

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A12

<400> 30097

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ctcttggtcg tgactcgctc ggctcgccgga agaagggggcg catcgatctg ggctgctgcta 120
gctgcgagag cccaatatgc atccgaccat acaatcgact gaccgctctc tctcggcagc 180
gtctgaatct gcaactgggc gaccactcct ctggcgctcaa gtcactgcac cctatcggcc 240
tgctgcat atttaactaa acgcctgctc ccatacaaaa cggagatcta ttg 293

<210> 30098

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-A2

<400> 30098

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gacaagaaag gcgctaaagg tggtaccctc agactcctta accaggcaca taacctcaac 120

agaaatggag aactttatct tcataagtgc ccaaattgtg gagtcagact catagatggc 180
 accagcttag ctgatgcagt atttgtgaat agtgttcctc aaggcacaga tcaagttggt 240
 ct 242

<210> 30099
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-055-Q1-K1-A3
 <400> 30099

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 catgaaaggc cacacgactc gccgccgcaa caggatcttc ttagtatcta gaagcgcagc 120
 tgcgagagtt ggtcgtactg atggtacttg gtagcatccc tgccctgcctt gttctttgag 180
 tgaagcgttg gaacgtggcg tgtgtgtagt gtaactgtgt atgcaggcgg tgatttatat 240
 gcatgcttcc tttaagtaga ttgccagtag tatctgcgta tggtagagctg gtengtcctt 300
 aatgtctgtc cccatgt 317

<210> 30100
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-055-Q1-K1-A5
 <400> 30100

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 attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180
 tgaggctcca tcatccttag gatccataat tgacgcacca tcttcactgc acatttcaag 240
 acggctagaa gacgcaagca agactacaga tatagcctac gtggtactcg ttcggaagag 300
 ctttgcattg attacaggga tca 323

<210> 30101
 <211> 398

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A6

<400> 30101

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 ataccagtcc ctacatgaag catacagaat gaaaaatggg tcgactcgca atatccacaa 180
 atgagggtcc atcatcctta ggatccataa ttgacgcacc atcttcactg cacatttcaa 240
 gaccgctaga agaagcaagc acgactacag atatagcctc cgcggtactc gttccgaaga 300
 gcttgacatg gattacatgg atcatcctgc ttgggtcaact ctcatagagg gttgcttgct 360
 aatgaacatg ccacataccc aggacaccct cctgtact 398

<210> 30102
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A7

<400> 30102

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 gatttgaaga ggcagatgga cagtgccttg catgatgcct ccgtgttttag gcttattatg 120
 gacttgctca aagttgttct gaataagtgc caggaaataa ggcctctatc ttatttaggc 180
 ctctatcttc ggggtagctg actaagtgtt gttattgcta cggaatccag aattctgtga 240
 attgaaatga attgtaccga tg 262

<210> 30103
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A8

<400> 30103

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aggcttcaag ggcgaagggtt ggcgcgagcgc aagaaacccc agctgaagcc cctccttcag 180
aacctgctgc tccagaagat ttcacgggtt aacatggcat tggagacgcc acatgtcctg 240
atctgaccgc gcaattgggtt gcttcgaacg aagtcccagt ccatgggttga tcagctgagc 300
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gaagttgaat cgctcgaagt gtcac 385

<210> 30104
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A9

<400> 30104

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caatcgcgat tcataatgga aaagaacata tacctattta cataacaaat cctatggtag 120
gtcgcaaatt gggggaattc gtgcctactc ggcatttcac gagttatgaa agtacaagaa 180
aggatactaa atctcgtcgt taattgaatt cagaatagaa agattcagaa taaacaaaat 240
ttataggatt caaataatca aataaagtaa aggtaggcgg gtaataacct tatttatgac 300
aagtttcaaa ttggtaaagt atacccttag gataaagaag aagaaggggc tgagaaaact 360
cgcaagaaaa gttccaaccg atcgtctact taaattcgaa cgggttttca aagcacaaaa 420
acgcata 427

<210> 30105
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B1

<400> 30105

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ggaggaaacc attaaaggtc aagttgaagg tcttggtttc aacaattcat tccttgatcc 120
ttgtgggttt ccttcttttag attgtgggtt tcaactgtctt ccatccaaga aacactgtac 180

aaatcaccta aacaggtaat gtactcagga gggggtgatg aaaacaagaa cctcaaactc 240
aaataagtac aaagagggtt ctcatgttat ggagtatggt gataagacct tcaaggatga 300
gaagctntcc ttttatcaag gttttgatcc tgctaatagcc aacattgcaa acatgc 356

<210> 30106

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B11

<400> 30106

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ccagacaaca ggttgatgga ggctaagatg ggacgcttct tcgagtcctg gagcaatttc 120
ttcacccggag gcgaccacat cccctgggtgc gaccgcgacc tcatcgccgg ctgtgaagga 180
gagcttgatca atgctgtaaa tgaggaacaa aggaatgaaa gccttatgag gttgtcatgg 240
gcccttgatgc actccaggca gacagacgat gtaaaccgtg gaatcagcat gttcaagct 300
tctttggata attctgccag tcctctgcag actagggaaa agctgtactt gttggctgtt 360
ggattctaca ggattggcga ctactcaaaa agcagggaac t 401

<210> 30107

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B12

<400> 30107

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agatctctag taaagaagtg gcagacattg attgaagccc atgttgatgt caagacaacc 120
gacaactaca tgctgcgttt gttctgcatt ggttttacca agaggcgccc aaaccaggtc 180
aagagaacct gctatgctca ggcattcccag attcggcaga ttcgcgcgaa gatggttgag 240
attatgatca accagtcttc tacatgtgac cttaaagaac ttgtttctaa gttcattccg 300
gaagttattg gcaaagagat tgagaagtct acctccagca tcttcecact gcanaacgct 360

ttcatccgca aggtgaagat actcaaagcc cccaagtttg atc 403

<210> 30108
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H8

<400> 30108

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agacgtgct gttcgccgcc gtcgcaggcg tgctgctggt caggaaaaac gaggacgtcg 120
agtcgctgaa gaagctcgtc gacgagacca cgttctatga caggcagtgg caggcgacct 180
ggcaagatga ctccgctggg ggaccaaaca actagttagc cgttgtggta caaaaaaat 240
gcaaacgct ttcttggtac gtagcttacc tatttcctcg gccttcttgt tttccctgtg 300
tagtgagatc tttttttttt tttgtttttg acaaacgcaa tgatctacgt catgttgtaa 360
aattgtatgg aaaataattc tgcagtttca gttttttttt 400

<210> 30109
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B2

<400> 30109

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atttgctaag atatgccggt gttgtgttac atgttttctg gataggtctg gttaaaattt 120
tgttctgttt tacggcttgc gggtttcttg ttggtgcc 158

<210> 30110
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B3

<400> 30110

ggcatgatca catgatcagg atcgtgtagt gctggccagg ggacggcgcc tttgtgagtt 60

gtgagagctc gtactgtgtc tgtgtgactg tgtctgtggc cgtatgagca tttagccctg 120
gatctgtgtt tgttactctg tcttcttcgg gaacatcgat tatctc 166

<210> 30111
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B4

<400> 30111

gcggcctacg ccacctcccc ctcaccttcc gccgtgcgcc ccgatccctc gccgcgagct 60
catctcgccg aggactggat cgccggagcc cggaaggaca tcgtgggtgt gtgtgtgtcc 120
ttcgcaccca tgcgggggta 140

<210> 30112
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-055-Q1-K1-B5

<400> 30112

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aactacaagg tcgtttacag gcgctacgcc tcccttttct tctcgtcgg cgtcgacagc 120
gatgagaatg agttagctat ccttgaattc atacatcttc tgggtgaaac tatggatcgc 180
cacttcggca atgtgtgcga gctcgatatc atgttccatc tggagaaagt gcacttcatg 240
ttggaagaga tggatgatgaa tgggtgcatt gtggagacaa gtaaacagaa catcttggca 300
ccaatacaac ttatggagaa aacttnctaa aatagtgata tccatttgtg tagttntaca 360
tccacttctt agcacat 377

<210> 30113
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-054-Q1-K1-G2

<400> 30113

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gctaataaat ctttgaacta gtcataata tccttgattg tggatgaaga ggaacatcac 120

gcacacctgt tctagtctat gtttggttaa cagcccaac agcagctcta gggagatttc 180

taccacctag atgctcagtt tcaccaacta gtttatcaac aaccctcag aatttttatac 240

aacaacaatt agtcggttga actcctatct ggacgattaa tcaccgttta atcgtggtta 300

gtgttacgat cagagttcta gttgccctag tcgcgtcgtg caccctaact gatcttgcaa 360

tggcgataag gccgactaat tgcgactaat cgtgattagt cggacgactn caaaacatgg 420

ctaggcacat gtatttgcaa 440

<210> 30114

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G3

<400> 30114

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aaacaataaa aaaaaaaaaa aggaaaaaaa ataaaaaaaa aaaattcaaa ttaataaat 120

ttattacaat attatacaac attacatata actttattaa ctcatctata ttacatcta 180

attccacttc ttttaccac ttttttacta ctaataacct tcctaatacc aactctttct 240

caatttaata cattttcctt tctttacctt tc 272

<210> 30115

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G4

<400> 30115

gaaatgatcg attcgaagaa taagcaaccg tcccagagtt gtctaaagag acccaacagc 60

actatacgag tgacaccggt tgaaaaaata tacaggggaa agcaaaagaa tgctggcatg 120

agataattgg ttgtgaattg cagcacaccg attgcagact cattcaactt ccccatgttc 180

ctccttcaca gcatttcctg agacctgcgg acacattgcc taaccttctt cttgaactca 240
 ttccgcttct ctctccaatc cttggcagct tcaatatttg ctggagactc gtcattcgga 300
 ctagagagca ttgaaatgat gctcagaact 330

<210> 30116
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G5

<400> 30116

cccacgcgtc cgccccacgcg tccgaaagat atcttacccct cagcaagttg ctgttgcatg 60
 cactggaatc atttgggtcaa ggtacagctt ggttatcaca ccgaaaaact ggaacctttt 120
 cagtgttaac gttgcaatgg cgggtacagg cctgtatcag ctttcacgga agattaggca 180
 agattacttg tctgggtgaga aggatgctgc tccacaactg caagaataga taatgacaac 240
 acac 244

<210> 30117
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-G6

<400> 30117

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 gttcttgtag atcctggaat gttgagtaaa acgttggtctt gtttggacag ctgcagtttt 120
 cagcgggaata aataactata accgtgttac tgctagacac aaagccttct ctgaacaaag 180
 cttgcacaca tggtattagt tcagctagca gcaatttcag tcagctatat agcgcgcctc 240
 attggttgac tgaagtgggtg aatgtctatg ctcaggaccc aaattaaagg cgatgcaact 300
 tcttgctgag atgtcagcta gccggatcag tttctggagg acattatatt ataataaat 360
 atgaagaata catattatng tatatgtcat ggggtatatt catcttcaga tgcttgcctc 420
 attatctttt attcat 436

<210> 30118
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-G7

 <400> 30118

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 gaaggaaatc cacattacaa tggtagtggc attttataga tttatagatt ggcataccac 120
 tattcaatgg tagtggtgaa ttatctagaa gcaacaaagc aacagattta aaatgccagt 180
 tatagagtta ggcttagttt tagttaaaat attagtgggtg aattatctag gcatacatcc 240
 agtccacacc ctcaacatac cgagttaggc tcagtttttag ttaaacaacg tcttggtttc 300
 ttgtgcctac tgatggcttt tcttaatat atatcaatga catcttaggt tttggaaggt 360
 ggtgcagttg tcaggactct tatagatcat agtattcctt ctaatgggga tatcaat 417

<210> 30119
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-G8

 <400> 30119

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 acagaagcca tcaactattgg aacactgatc gattcataca atgcatctcc agcgtttttg 120
 aagccattaa tttccagtgg caatccagcc ggacccttca agtttagtga ggctgaacaa 180
 gaacagatgt tggagctccg agaccagggtt ttcagagtat ggggtctttt gagatcctca 240
 aataactttg atccgagncc tttgcaacca atcggttcagg tgctacaaga accagaggcc 300
 cgcgtcttgg gttctcgtgt cgcagtgggt gtaacacagc gccttgcggc acgtctgctg 360
 caacagcttc tcaggatccc ttctcctgga tcttcgtaac agattatata gagatgggct 420
 cgtatgaagc atgt 434

<210> 30120
 <211> 366
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G9

<400> 30120

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gtgtaacctg gcttccggca tggcttccaa gcagatcgga gtcttgacct gcttcattgc 120

catcacccgt ctgccttcc gtccttgcgc attcgccgtg cccatggacg gtggctggtc 180

gaacggctgc gccacctggt acggcccagc caagggcgct ggatccgacg gtggtgcgtg 240

tgggtaccag ggtgccgtcc accagccttc ggtctcgtga atgatcaccc gccgcagcca 300

atccatcttc caggacggca agggctgctg cacctgctac caggttaagt gcacctgaca 360

cgcctt 366

<210> 30121

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H10

<400> 30121

caaaaggata atgcgcaatg ctttttcagg ccttgctttt ttgttaatct tcttgtagcg 60

gggtagcacc cctaaggatg agacgaagaa ccacaacgct gacagggatc gcatcgctgt 120

atgacgtttt ggagcatata gctcccgtct ttttcagaga tttgtgtcac ctttttgatt 180

tgcttctggg gctactcttg ttgccgcatc aaaaccagct aacgctgttt tgcgtgtgca 240

gtggtttatt tgacaatgtg taggagattt ccacc 275

<210> 30122

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H11

<400> 30122

cccactcgtc cgtaagaaat ccttggaccc tgtggctccg ctacacaaat atgggtgttg 60

ctgcatatca aatatactga ccactacctg ccagtatgag gccctcaagt atgtaagctt 120

ccctgtccaa acgcttgcca aatgcgcca gatgatacct gtcattgatct ggggcacaat 180
aataatgaga aagaagtatg ttgcaaaaga ttacttcttt tctgtcgtcg tgactatggg 240
ttgcgcattg ttcattctat atccggcgtc gatggatgtg agtccattta ataaaggcag 300
agaaagcact atttgggggtg tttcactcat gtcggttat cttggttttg atgggggtcac 360
aag 363

<210> 30123
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-054-Q1-K1-H12

<400> 30123

cccactcgtc cgatctacag caacttcacg gatgcactcc cagtgggtcaa gtactgctcc 60
gagaacagca agcgtctcat ccacttctcc acgtgcgagg tctatggcaa gaccatcggc 120
agcttcctcc ccaaagacca cccgctccgc aaggaacctg aattttatgt tctgaaagaa 180
gatgagtcac cctgtatttt tggccaatc gtgaaacaac gatgggtccta tgcttgccgc 240
aagcaactta ttgagagact tatatttgct gaagggtgcag aaaatggcct ngaattcaca 300
atcgtgagac cttttaattg gattggggcca aggatggatt tcattcctgg tgt 353

<210> 30124
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H2

<400> 30124

acgaccacgc gtccggcttg gcttggtgc gctagcgac accgaaccg tcaccgatgc 60
agcgtcgccg cagatccgcc acgaccgacc gatcgatccg gccggcgccg ggcgccatgg 120
cctcccccaa ccccaggcc gctgcactgc aagccgaggc tgacgctgca acattagaga 180
gcctcaacga gcacacactc agc 203

<210> 30125
<211> 433

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-H3

 <400> 30125

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 taccgggttg tgctgcacca ggtgggtccg tggctggagc gcaacgtgga ccccgtaag 120
 tcgcggtgt tcttcgtcac cgcttcgccg acgcacacgg acggcagggc gtggggcgac 180
 gacgacgcgg agggcagcgg caactgctac aaccagacgt cgcgatcag cgcgcctcg 240
 tcctaccgtg gcggcacgag ccaggagatg ctgcgcgcga cggaggagggt gctggccacg 300
 tcgcggtgc ccgtcgggct ggtcaacatc acgcggctgt ccgagtaccg tcgggacgcg 360
 cacacgcaga cctacaagaa gcagtgggtg gagccgactg ccgagcagcg cgcgcacccc 420
 aggagctacg ccg 433

<210> 30126
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-H4

 <400> 30126

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 ccaccaccac cgcgggacca cccgaccct ccttccctct cgcgctatgg ccagactgt 120
 tgtgtcaag gttggcatgt cctgtgaggg ctgtgttgga gctgtcaagc gggctcctggg 180
 caagatggaa ggcgtcgagt cctacgacgt agacatcatg gaacagaagg tcaccgtgaa 240
 gggcaatgtg acacctgacg ccgtcctgca aactgtttcc aagactggca agaagacttc 300
 gttctgggag gctgaagccg tgacaagtga atccgccaca cctgccggcc accgcctgac 360
 aggttcgatg atctggaagt gccagcaaa aaaatgtgaa tgtatntagc ttggatctgt 420
 tacaataat tgcaaactgc t 441

<210> 30127
 <211> 434
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H5

<400> 30127

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gccggcgagg aggataagaa gcccgcgag ggccggcgccc acatcaacct taagggtcaag 120
ggacaggatg gcaatgaggt gttctttcgc ataaagaggt ccaccagct gaagaagctg 180
atgaacgcct attgcgaccg ccagtctgtg gacatgaatg ccattgcatt cctgtttgat 240
ggccgcaggc ttccggcgga gcagaccct gatgagctgg agatggagga cggcgacgag 300
atcgaccca tgcttcacca gaccggaggc agcgttccta gcaccaccta aaagcagcag 360
ctgcggagcc tcgttttgct ctccgccctg cgtagtacta aacaaaaggg aaaaagtctt 420
tttaaggaac ttgt 434

<210> 30128

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H6

<400> 30128

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tcctcagctg catcaccaag cactcccccg agtacagggt cctcatgacg gccgcacatc 120
tcgggggcat cgccacctcg ctgctcttct ccgccttcga gtcctggctc gtcgcccagc 180
acaacaagag aggctttgac ccgcagtggc tgtccataac attctccaaa gccatcttcc 240
ttgggaacgg cttaattgcc attgtatctg ggctatattgc gaaccttctt gctgagaact 300
tgggttttgg tcctgtggct ccatttgatg cggctgcgtg ctttctggcg attggcatgg 360
ctatcataat gtctcatgg agtgaaaact acggagatcc atctgaaagc aaggacctga 420
tggcccagtt caag 434

<210> 30129

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G12

<400> 30129

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aggagatctg gagagtcgcc cctgccccac agaacgacgg gtatcagtac acacactttg 120
cgcacaaaat aaacagcttc aacacggcac ctaagaagct gttggcatct gattccccggc 180
tgaagcccga tagatatgcc ctcgagaagg gcgacatgtc caagtctggc tcagaaaaga 240
gcaggctgga ggagcagcag agagccgaga aaaggactcg agaggccaag ggcgagcagt 300
tcaactccgg atggttcaac gtgacggatg cggtcgcctt cagccgtgg ggtgacctgg 360
aaatttgcca gtacagcggc agatacacgg agcaccgggc 400

<210> 30130

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H7

<400> 30130

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ggctgactcc taccagcagc tagtccggcg gctgccccgg ccgtatcaca acctgaatga 120
cggcggggcat agcaacctca aggcgctgat gtgagtcgta gtcctggctt gtatccaatc 180
acaacaagag aggctttgac ccacagtggc tgtccataac ataatacaaa gccatcttcc 240
ttgcgaacgg cttaattgct attgtatctg ggctatttac gaaccttctt agctgaaaac 300
ttgagttttg gatcctgttg ctccatttga tgcagctgcg ttctt 345

<210> 30131

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E4

<400> 30131

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accatctgcg gctggtttat gaggcgaacc ctctcagttt ccttgctgaa caggctgggg 120

gtagagggtc agatggcaag aacagaatcc tcaccattca gcctgtgaag ttgcaccaga 180
 ggctgccttt gttcttagga agcatggatg acatgcttga gttggaaagc tacggagatg 240
 tgcagcagaa ggtcaatcct ggatatgaag tttaacgata tgtaaaaaaa ggttcagatt 300
 ttttcaagcg cccaagcaga aaataaggta acactcgtgt ggcaaccctg tatctgccga 360
 tactatacct tgtcttttcc tctcgggttt tagcccaccg caacttgatt gggactaaat 420
 ccagttgttg ttatt 435

<210> 30132
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E5

<400> 30132

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 gcagcaatat ggcgtcccta tctgtggtag agacattctt ggggatctca agctcaaaga 120
 gagtgttaaa gccacacta actggcctac atttccacaa atatttatca aaggagagtt 180
 tgttgggggg tctgacatca tattaagcat gcaccagaag ggtgagctta aggatcttct 240
 tggggatatt gcacaaagag acgaacaaaa agtgcattgt cactgattcat gaagcaatca 300
 acagtagggt cttttactat gcgctatcta cttagccact aaaatgttct atctcgaggt 360
 ctttaggcga cagcgtacgt gacattgtga actgtcctac gcattggaca tggatgaccg 420
 gatgtgttc 429

<210> 30133
 <211> 123
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E6

<400> 30133

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 ctatgaatgg tcgaatgaaa cctgtagcgt attatttgag tacgttttaa gacagggttt 120
 ttg 123

<210> 30134
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E9

<400> 30134

gaagaacagt acagtgaccg gacatcgaag atacttgctg ctcaccatgc aaaatccatg 60
gggttagttg ctgaaaaccg gaatggagat agaaagagca ggagatctgg tagatggggc 120
ttgttaggga ataaacttcac ggtcgctctc atggttcaac tgcgtgaccc actacgtaac 180
tactagccag tgggcacacc aatgttcgcg ttaattcaag ttgaaagggg ttttgtaccc 240
ccgaagccca aaatctacag taccgtctca gacaaaggca acagcgagca ggatgactag 300
gaaccaagg ccgaagaggt tccagacaag gcattgggtc cggaagagaa agctgaagaa 360
ttagaggatc ccgttcccca attcaagggt tcag 394

<210> 30135
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F1

<400> 30135

aatgagtcgg tccagagttg cgacattgtg gctttcaaca agatctagag ttcagtttct 60
gagtttgggc aacggcagcg gctcagctcg tcaagtttgt gctgggatgc cagtttatcc 120
cttctagtct attacagaaa tggtgttcgg agctgagtct attataaaca tcttgggtctg 180
agttttattgt tgagtgggtg cagttttttt caatatacat ttatctt 227

<210> 30136
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-054-Q1-K1-F10

<400> 30136

cccactcgtc cggctcggcg tgctctccgt tcgaaccgat gcccatctgc tgaatcggat 60

cggtatcgtgc gatcgggcgc cacgccacgg cccgcgggtg aggcgtggtc tccgggaggc 120
agccaaccta tcccacccgg tctagcctct agcgatcccg gcgccggcag cgcgcacgag 180
aggaatggac gcgtcgcacc cggagggcga ggccacggct ggggtggctga cggtcgagga 240
gtggagcggc tcgtcagcct tcgcgtctc cgcaccgtc gtcctcaccg ncttcggctn 300
ctctctcacc gcacacaggt tcggcagccg gtgggag 337

<210> 30137

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F12

<400> 30137

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tgccaggaac gataaggcaa ctatacttgg tgacacaatc cagatgctga aagatttgac 120
tactcaggtg aacaagctga aagctgaata cacgtcactt tctgaagaag cgtgtgagtt 180
aacacaagaa aagaatgagc ttagagatga gaaagcttca ctgaaatctg aggttgataa 240
tttgaataat cagtatcagc aacgaatgct ggtgctatac ccatggggtg gaatggagcc 300
ttctgttgtc atggggccac ctctgcata tccctaccca gtcccagttc caataccctc 360
tggtgctgta cccatgcac cgcagttgca aacataccac ttcttcaca gtcaagcttc 420
tggaaccatc ccatacacat gcatccctta catg 454

<210> 30138

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F3

<400> 30138

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aaaaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaataaa 240

aaataaataa aaaataaatt taaaataaaa aaaaaaaaat tataaaataa aaaatttttt 300
 ttattataaa taa 313

<210> 30139
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F4

<400> 30139

aaaaaaaaa aaaattttaa attaaaaaaa aaaaaaaaaa aaaaaaggta aaagtaaaaa 60
 taaaaaaaaa aataaaaaata atac 84

<210> 30140
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F5

<400> 30140

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 ctacatcatc tccgtcaagg gcatcaaggg ccgcctcaat cgcctcccg tccgctgcgt 180
 tggcgacatg gtcattggcca ccgtcaagaa ggggaagccc gacctcagga agaaggatgat 240
 gcccgccgctc atcgtccgcc agcgcaagcc gtggcgccgc aaggacgggg tctacatgta 300
 cttcgaagat aatgctggag tgattgtgaa tccaagggt gagatgaaag gttccgctat 360
 cactggacct atcggcaagg agtgtgctga tctttggcct aggattgcta gcgcagcaaa 420
 cgctatcggt tgag 434

<210> 30141
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F6

<400> 30141

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ctcctttcac tcgtccggcc tgcattctcca gcattgtgtt ctgattcacc tgcctcaatg 120
gctgttcttt ctgctgctga tgcttccccg gtctcagcta tcgggtttga gggctatgag 180
aagcgcttg agatcacatt ctctgaggca cctgtctttg tggaccctca tgggcgtggt 240
ttgcgtgccc tttccagggc ccatattgac ttctgttctg gatcttgac gtttcacatt 300
tgtgtctgag tctttttaac attgatttct tctcatatgt tctttttta tttttgctat 360
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<210> 30142

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F7

<400> 30142

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acaaggaggg cattccaccg gaccagcagc ggctgatctt cgccggcaag cagctggagg 120
atggtcgcac cttggctgac tacaacatcc agaaggagag caccctccac ttggtgctcc 180
gcctcagggg tggcatgcag atctttgtga agacattgac tggcaagacc atcaccttgg 240
aggtggagtc gtctgacaca atcgataatg tcaaagccaa gatccaggac aaggagggca 300
ttccaccgga ccagcagcgc ctgatctttg ctggcaagca gctggaggat ggccgtaccc 360
tcgccgacta caacatccag aaggagagca cccttcacct ggtgctccgg ttgcgaggtg 420
gtatgcagaa tcttgt 436

<210> 30143

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F8

<400> 30143

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ctctctgtcc tctcctccg cctcctcccc tgccgtgct gccaaaggcca aggcggcgctc 120

cccgtcgtcg tcgccatgca ggcacctcca gttcctgtcg gcagcgagcc cgcggcggcg 180
gtggcgggcc ggcgcccgcg cgttacgggc gcaggtgtcc accaccgaga ccgcggcggc 240
ggggccggcg aagacgtcca agaagcagga cgaggggctg gtcaccaaca agtacaagcc 300
caaggagccg tacgtcggga ggtgcctgtc caacaccagg atcacggcg acgacgcgcc 360
ggtggagacg tggcacatgg tcttcagcac cgaatgcgag atcccgtata gaga 414

<210> 30144

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F9

<400> 30144

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cggcggcaag gcgccgcgga agcagctggc caccaaggcg gctcgcaagt cggccccggc 180
cacgggcggc gtgaagaagc cgcaccgctt ccgccccggc accgtcgcgc tccgcgagat 240
ccgcaagtac cagaagagca cggagctgct catccgcaag ctccccctcc agcgctcgt 300
ccgcgagatc gcacaggact tcaagacgga cctgcggttc cagtccctcg ccgtggctgc 360
gctgcatgag gccgcggagg cgtacctggt ggggctcttc gaggacacca acctctgcgc 420
catccacgcc aagaggggtca ccatcatgcc c 451

<210> 30145

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E3

<400> 30145

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aaacagctct agctagcgcg ctctcgtct aacctggctt ccggcatggc ttccaagcag 120
atcggagtct tgacctgctt cattgccatc accgtctctg ccttcctgct ctgcgcatcc 180
gccgtgccca tggacggtgg ctggtcgaac ggctgcgcca cctggtacgg ccagccaag 240

ggcgctggat ccgactgtgg tgcgtgtggg taccaggggtg ccgctcacca gccttctgtc 300
 ttgttaatga ttaccgccgg cagccaatcc atctttcatg actgcaaggg c 351

<210> 30146
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G10

<400> 30146

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 gcgtctaacc tcgcttccgg catggctctc aatcacatcg tactcttgac ctgctacatt 120
 gccattaccg ctctcacctt cgcctcctgc tcatcctccc ttcccataga ctcttgctag 180
 ttcacactgc aaaacaacgc tctcagcata ctcatatacg cctccttaca tcagagcttg 240
 ataattcgca tcatcagttt catcatcaaa ttctcggttct attcccatat atctgaatgg 300
 aaccttctcc tatcatatgt ccaccttttg cat 333

<210> 30147
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G11

<400> 30147

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 gttttagttt gtctggccat gcttgggtcg catcaatctg tgacacgatg aatatcactt 180
 tgtcaaccta ttcttctcac aaaat 205

<210> 30148
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C8

<400> 30148

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ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aattaataaa aaaaaaaaaa aatattaataa aaagaaagat ggaaaaataa cagaatagga 240
attgaaacaa atgaaaaaaaa caacaatatg cgcaaattga ataagataat ggg 293

<210> 30149
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D1

<400> 30149

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catgacaaga tcttcaaaga cgctcaccaa gaggcgctgg agaaggagat ccagcggctg 120
cgccaagtgt accagcagca gcaggtaag gtggccacca ccggcggcgc cgacatcgcc 180
accgccgcct cgccgtcgat gcaggccagg caagagctgc tcgcgtgcga gggcgctgct 240
attcgatagc ggaggcggcg gctgcggcgg cggcggtcac gccctgtta ctgttagtag 300
cttaattaac ttttgtgcag tctgatcaat acgtgttggc ttgtttgttt gctgcttctt 360
aatttaattc gtatgtgaag tattctgctc accctagcaa aaaaaaaaaa aatgca 416

<210> 30150
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D10

<400> 30150

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ttccggtaca cccaatcctt ccgcagggat accacatcca atataggatca agttcaagat 120
cctagctcag ggttccacca tcatcatcac caccaacaca tcatcatctc gcatctcgtc 180
cagtctatgc ttgatctata ttggatgtgg tactactgga gacggcttgg gtctggggga 240
tgcatgatcc tgctcatctc t 261

<210> 30151
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D11

<400> 30151

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gctccccgaa ggctcgaacc ctttacagcc ggccaagaag atgcacctgt ggccatcgct  120
ccggatccgc gactcggttca agcacggcta cctccagaag ctggagctca acctcggcaa  180
catgaagcgc gcgcagcggc agcgccaggg ccggcagggg gagagccagg aggaccagga  240
cggccagccc ggcggaacg ggaaggcgcc gctgctcgag gaccgctcgc catcggggtc  300
cgtgcttgcc ggcgcgctcg agctcgctg ggacgcgctc ttgctcctca cctgctgctg  360
ctgttgcttc tgctgcggag cctgtagcga cgaaaaggat cacccaac   408
  
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<210> 30152
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D12

<400> 30152

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ctcggcggat tcttgcacga ctacatggca aacaaggaga agatggaact gctccggtgg  120
ttgaagactg tcgaatcatt ccttaacaag taggataaga tcgcacacag aagacaccgt  180
cgatgttact ggctggtttg ggaacgggta cgctccaaca acaactcgtg acggtcttct  240
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gtttttaatc agcttagata gctcaacgca caacgcctct ggaaactggg gatctgaata  360
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tacaccc   427
  
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<210> 30153
 <211> 438

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-D2

 <400> 30153

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 cggaccagca gcgtcttata ttgtccggca agcagctgga ggatggacgc acccttgccg 120
 attacaacat tcagaaggag agcaccctcc acctggtgct gcgcctcaag ggaggaatgc 180
 agatcttcgt gaagacattg actggcaaga ccatcacctt ggaggttgag agctccgaca 240
 ccattgataa tgtgaaggcc aagatccagg acaaggaagg tatccncccg gaccagcagc 300
 ggctgatctt cgccggcaag cagctggagg atggtcgcac cttggctgac tacaacatcc 360
 agaaggagag caccctccat ctggtgctcc gcctgagggg cggtatgcag aatcttgtga 420
 agaccttgac tggcaaga 438

<210> 30154
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-054-Q1-K1-D4

 <400> 30154

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 ggacttctac ggcaacgacc agagcaccat gatacaggcc atccagcaga acattacgga 180
 ggaatgggct gatgaggaga agaagtggga ggccctgccgt agccggacaa agacctgcgc 240
 tgacaagtac gctgcagaga gcgcgaagct ggccctgcacg gcgtacgagg gtgtcgacca 300
 agactccacc tnggaagatg actacttctt cgccgcgctg ccggtgggtc agaagaggat 360
 cgcccaaaga ggcgtcaggc tggccgcgat cctcaacagg gatattggtg ggaacagcag 420
 atcaagcttc agagcagtt 439

<210> 30155
 <211> 429

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D6

<400> 30155

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aagcacgttg atggaagtac catgcaggcc catgaggaga aaattcagaa tagatatgtt  180
tgaatgccac gtactgagca gcttggagga cattgacaat tggcatgcca catactgtgt  240
tgtcaaaagc gcgacaggac tcataggctt actcgtaaga agtctgaatc tatggcttca  300
cttagtcttg gtggagagggc tttttttttg ttcttttttt attattttat tatttatatt  360
ttttattctt tttttatttt tttttatttt ttttctgttt ttcattttta tttatttttt  420
ttttattttt                                     429

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<210> 30156
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D7

<400> 30156

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ggatcgacaa ggtttacatc actgtacagt tacctgacgc aaaggatgct aaggtcaatt  180
tggatccaga tgggtgtcttc acattctctg gcagtgtctg tacaaaacttg tatgaattga  240
aactagatct gaatgacaaa gtaaacgttg aggctagcaa aataagtgtg ggggtcaggt  300
ccatattctg tatcgtagaa aaagctgaag ccaaatggtg gaagaaactc gttcgagatg  360
atcaaagggc acctcacttt gtgaaagttg attgggacaa atgggttggt gaagatgatg  420
atggtgctga ta                                     432

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<210> 30157
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D8

<400> 30157

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attcccggtg attaaacaac taccttggac tgacttataa aattttattt atttagaatg 180
gtcccttttt ttaatttaaa taatttcttt tttagattat catattattt tttcattttt 240
tatttttata tttcattatt ttattttttt aattttcttt tttctttttt ttctttaatt 300
atctttttgt ttttttttat tttttttttt atttgtttat atttttttta tttttctatt 360
tttctttttt attttatttt tttattctct tttttttttt ttttattttt ttttattttt 420
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<210> 30158

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D9

<400> 30158

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tcgtgtcttg cagcagcggc aagtgcaact gcggtccag ctgctcctgc ggcagctcat 120
gcaactgcat gtcccctgac gtggagaccg ccgcgcgcag cagcatcaag accatgggtc 180
tcgtgcgcc gaccaccaag gccagcgccg gcggtctcga ggcggccacc gagggcggct 240
gctgcgactg caacacctgc aactgcggca ccagctgctg ctgctcctgc tgcagctgca 300
actgagccgg ccgcccggc ccggcgatgg ctcacgagag tcgagaggac tactactact 360
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<210> 30159

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-E1

<400> 30159

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caagccattg ttgcaacctg catgtattga aggagcttca ttagctcatg ttcgggatgg 120

ccaaacttca accttgcttc catctatagc ttcctcaaga cctgcatgtg tcctcaattg 180

gagaagcctt gtgccaaata gcgagcaatc ttgacagata catgaaagcc ctaagcacca 240

atgtgaggag atggacatnc acaggcgctt gcatttatta gttgatgagg attattaacc 300

cgggacaaca accattcact ccactccaat tctacaaaag gaaggctcag aactagcatc 360

ccagatgatc gaaggattcc tccatgccac ta 392

<210> 30160

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E10

<400> 30160

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ggaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaag aaaaaaaaaa aaaaaaaaaa 120

agaactagaa aggggaataaa ctaaaaggta gtttctaattg gttcaactga gtgacaaact 180

acgtaactac gagccagtgg gcacaccaat gttagcgta atacaagttg aaaggattat 240

tgtacaatca aagcccaaaa tctacagcac cgtataagac aaatgcaaca gcaagcaaga 300

taactaggaa cataaggccg aagaggtttg agacaaggca ttggtcacgg aagaga 356

<210> 30161

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E11

<400> 30161

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gtttttgatt gcaaggctgc tctgtgtcag ttgttagtgc tgtgttcac ctcggctcca 180

gcagacccat gcatcaacca gcatggactg tggatcgatg gatgctgtta ctctgtcag 240
gatttgttct aagttaatcc taaggaaaaa atggtgcttc ttggtgctgc 290

<210> 30162
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E12

<400> 30162

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cctttctgat tgtaacgtca ctctatctca gttgcttcta ctctgttcat actaggctac 180
ttegcacca ttcattaacc aacatggtct atggctcgat tgattctgtt acttctagtc 240

<210> 30163
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E2

<400> 30163

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tctacatgct tgatgtgctg taccgcttcg tcaacacata catctaccgt caatcggaca 180
gccactacgc agaataccga gaatgttaca cacatacatg aaagctcgta gcacgcattt 240
tgacgagatt gacattcaca ggcaactgcc tttattactt gatgagattt attaaccggg 300
gacaacaacc attcactcta ctccaattcc taaaaggaa ggtccagaac tagcatccca 360
gatgatcgaa ggattcctcc atgccactaa tagtgacatg cctagtatta ccattcaagg 420
ttgca 425

<210> 30164
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C7

<400> 30164

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gggcagccgg ctgcagagga ggggcggccg gcggcggtgct gcagaggagg ggcggccggc 180
tgtagaggag gggcgccag cggcgtgcta cagaggagg gcggccggct gtagaggagg 240
ggcgccagc tctgtgtgc agaggaggg cggttcagg taagttagg tttaggtttt 300
gtaatgggcc tttggactgg ttggaccgaa ctggggacaa gtctgccgac ttgctagccc 360
tagtctactt atatatttca gtcgtgggca agtttag 397

<210> 30165

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B10

<400> 30165

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ggcgcaatcc agtgtccag aggtcacgtg gctcacacag gggaaggggg ggttatgaca 120
ctggtaggcc aaaccatgtc acaaattgtg agaggcgga gggtcgcagc catcttgaat 180
accagccagt ctgaccccaa atcaaattctg cagacttcca acagagcctg agcatggaag 240
aacgaaccga ggggcctact gcttctggac aagcgttcat gcagcgtgga cacaacaggg 300
ggctactccc aacatgccgc tttgtccagc gaaaccctgc ttctacgcct accactaatt 360
ctcacaaaaa tgaataatct 380

<210> 30166

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B11

<400> 30166

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 gtgccccatg tgttggcagc atatcagcat gaaagatcct atgagccaag agctactaga 180
 ggctgttgaa caagagagga acatccgatc taatccttca cgtaatactg ctgttttcca 240
 ccatccaatg ctgggtgatt ttgagggttaa gaaactccat caagaaaagc agttaggaat 300
 gatgggtggac aaaggcctgg tagcaactag gacaggggtg agtcagtacc acctgtctca 360
 ctggcctaaa atgggtgagg tgatcaggat gcttgaagga gacatgctca cagagagatg 420
 ggaggt 426

<210> 30167
 <211> 61
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-054-Q1-K1-B12
 <400> 30167

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<210> 30168
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-054-Q1-K1-B2
 <400> 30168

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 tggattccgg tgatggtgtg agccacacgg ttccaatcta tgaaggatac acacttcctc 180
 atgctattct ccgtttggat cttgcggggc gtgacctcac cgaccaccta atgaagatcc 240
 tcacagagag aggggtactcc ctactacga gcgctgagcg ggagattgtc agggacataa 300
 aggagaagct tgccctacgtt gcccttgatt atgaacagga gctggagact gccaggagca 360
 gctcctctgt cgagaagagc tacgagatgc ctgatgggtca ggtcatcacc attgggtcag 420
 aaaggtttag gtgcc 435

<210> 30169
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B3

<400> 30169

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ctttgcagat ggcattcagg cttatgctgt tgagccgcaa tgaccattg tcctgtggac 180
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gcattgccat gtgggggttg tgtgactcga tggaaacttt gctgtcttat tgtacttta 300
aatccaataa tttgcgcgat tgcggaaaaa aaaaataaat attttaaaat taa 353

<210> 30170
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B6

<400> 30170

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ttatcttttt ttttttttat tttttttatt tttttttttt tttttttatt tttttctatt 180
tattttatgt ttctatatat tttttttttt ctttttttct ttttttatat ttttttgttt 240
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tttttttttt tttatttttt tttttttttt tttttatttt tttttttttt ttattttttt 360
tttttttttt tttatatatt tttttttttt attctttttt tttttttttt tttttatttt 420
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<210> 30171
<211> 55
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B8

<400> 30171

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<210> 30172

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-B9

<400> 30172

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cagcccaatg caaggtacca caggggaggt gggtcacaca ggggaagggg gggttatgac 120

actgggaggc caaacatgt cacaatgtg gagaggcgga aggggtggcag ccatcttgaa 180

taccagccag tcggacccca aaacaaagct gcagacttcc aacagagcct gagcatggaa 240

gaacgaaccg aggggcctcc tgcttctgga caagcggtca ggcagcgtgg acacaacagg 300

gggctactcc cagcaggccg ctttgtccag cgaaacctg cttctacgcc taccactaat 360

tctcacaaa atgaataatc ttccgcggt gccacatcca ctgagcttca ngaactcgcg 420

cttggttggtg gccgttcaca acagataggt ttggatgcgc ttggg 465

<210> 30173

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C1

<400> 30173

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aggatgtgta agagtatgca ggctttgtgg gaagatttta taagaacatg cgaggttcgt 120

ttgaagaatt taactggttt ctatggataa aagccagctt gtgtggactg tttcatctgc 180

aatctctgta gaagcaacca acagagtacg gattaaaagc caagtgaata gactgtatga 240

tgtaaatctt gttgtagatc ttcataggtc ccattgttaa cactataaat atgttaatcc 300

tccatgcggc tttcct 316

<210> 30174
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C10

<400> 30174

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gaaggtgtac acccttgagg aggtggccaa gcacaacacc aaggacgact gctggctcgt 180
catcggcggc aaggtgtaca atgtgaccaa gtttctggag gaccaccctg gaggtgatga 240
tgtcctgctg tcttccactg ccaaggatgc taccgatgat ttcgaagatg tggggcacag 300
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tccaattag gtgaatttca cgcccc 387

<210> 30175
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C11

<400> 30175

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ccacacacca acatgacaaa ctttccaaac caatcggact aaatccgagc aaccggcaa 180
aatcaaaactc agctcgaaac cggcttagcg cggaggcaaa ccaggcccaa gggtttcaag 240
cccccttagg caacaaagga caggacagga acaggaaagg cgaggcactt ggacattggg 300
gcaaagaggg gaaaaccagt ttgcgaccag ggttttttac gccgttaatg caatgctcca 360
cg 362

<210> 30176
<211> 286

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C12

<400> 30176

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 taaacaagtc atccttcttc acaacaattt ccaatactac ctaatccatg tgtattgtga 180
 ataaccgcac aagccgtcat gtggtcggcg catcatagta atactacatg acagcctctt 240
 catcttatta ctaatgtagt acatcatcat ccccgataaa acataa 286

<210> 30177
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C2

<400> 30177

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 aagggtggcg acctgactgg tctgtcgggt gaggggaaca aggcgcagga ctacctctgc 180
 acccttgctt caaggatccg gaggctagac gagagggccc agagcagagc caagaaagca 240
 ggcacgctgc ctttcagctg ggtatatggt aggggaagtcc aactgtgaaa tcggaaaccc 300
 attgcgactg cttgagttgg agcatagtct atcatgcacc ctaagacgca tcgcgacgac 360
 aagacctggt gtgtcgcgtg acatagttgt tcagggtttg accaaatggt ctgggagcat 420
 ttgttttgcc ttgtg 435

<210> 30178
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C3

<400> 30178

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caagggcggc aagggctctgg gcaagggcgg cggaagcgc caccggaagg tgctccgcga 120
 caacatccag ggcacacca agccggcgat ccggaggctg gctaggaggg gtggcgtaga 180
 gcgcattctg gggctcatct acgaggagac ccggggcggt ctcaagatct ttctcgagaa 240
 cgtcatccgc gacgccgtca cctacaccga gcacgcgcgc cgcaagaccg tgaccgccat 300
 ggacgtcgtc tacgcgtca agcgccaggg ccgcaccctc tacggcttcg gaggctaggc 360
 taggcgcctc ttctgtagtc gggactgggt aggggacatg tctctgtgtg atgctttctg 420
 aggtagtatt gc 432

<210> 30179

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C4

<400> 30179

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 tatgccattg cattggctct gcttgatgaa ggtaaagttg ttttgggtgt attggcttgt 180
 ccaaattctc cattgtcatc aataaacaac atcaatggta actcttcggg agataaagtt 240
 ggtgccctgt tttctgctac aattggttgt ggggctgaag tagagtcctt agatggctct 300
 ccaccacaaa agattagtgt ttgctccatc gacaatcctg tcaatgcac attttttgaa 360
 tcctatgaaa gtgcacactc catgcatgat ttgactggct ctattgcaga gaaacttggt 420
 gtccaagct 429

<210> 30180

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C5

<400> 30180

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 aagcgagagc ttctgcataa gaacaacaaa tcaaaagcgt gatcagctcg gtgccaacaa 120

aacctcaaca accaagtttc atgtctgac tcgacgtcca gcttccatct gcctttgatc 180
 cgtttgctga ggcaaagtct gaggactctg gtgctggtcc tggaacgaag gattatgtgc 240
 atgtgcgcat ccagcagcgc aacggcagaa agagtctgac tacagtccag ggtctgaaga 300
 aagagttcag ctataacaag atcctcaagg atctgaagaa ggaattctgc tgcaatggta 360
 ctgtagttca ggacccagag ctaggccagg tcattcagct ccaaggtgat cagcgcaaga 420
 atgttgctac 430

<210> 30181
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B1

<400> 30181

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 tctagcagct cgctctgtcc tgcaacaatg gccgctcgct cctgctccca gcagctggtc 120
 gcggcgccgg tcctggcagc ggcgctgctg ctgctggctg caggggccgg gacggcgctg 180
 gccgcggaga gctgcccga ggtgacgtcg tcagttgctt 220

<210> 30182
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H3

<400> 30182

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 gacctggca agcgctgcgc taagtactac gaggcgggtg cccgctttgc caagtggcgt 180
 gctgttctca agattggccc caacgagccg tcacagcttg ccattgacct gaatgctcag 240
 ggtctggctc gctacgcat catctgccag gagaacggtc tggtgccaat tgttgagcct 300
 gagatccttg ttgatggccc tcatgacatt gatcgctgag cttacgtcac tgagacagtc 360
 cttgctgcct gctacaaggc tctcaacgag caccatgtcc tcctggaggg tacccttctg 420

aagcccaaca tgggtgactcc t 441

<210> 30183
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H4

<400> 30183

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ggtcaaattcc cagttcaatc ttctcatcat cgctgaatgt acagattcag ttcaaagaat 120
gaccggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180
attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240
ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300
tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360
ggc 363

<210> 30184
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H5

<400> 30184

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cgatccacgg cgccaaagac gagatcgtcc cggcggagga cgcccggcag ttcgcggcga 180
acatccgcaa ccacgagctg cgcacatcgc cagatgcaa ccaccgttac accgggcaca 240
gggacgagct ggccctcgtg gtgctgggct tcctcagctc ccateccctac cagaccacgt 300
cgcgcttgcg tccgagactg tagatagagt agagcacacc cacttgaccg tttgcgaaca 360
aaciaaacaca aaaaaaaatc ccctgtacca atccaagagt tgtgggtatg gtgatgtgtt 420
tatccagaac c 431

<210> 30185
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H6

 <400> 30185

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 gtgataccat tcaaatccca gttcaatctt ctcatcatcg ttgaatgtag gattcagttc 120
 aaagaatgac cgTtctactc caatcaacag tcatttTgtac tggacaatga ggctgacgaa 180
 ctgttgatt ctactgaggc agcattgaac ccaactccta ctgaaaagaa gcaggactct 240
 gctacttctg gctgcagatt gtttggcatt gagataggTt ctgcagtatc accagtggct 300
 actgatgcta gtgttgGCCa ggatcagcca cctgctctgt cagttgacgt tgaatctgat 360
 cagctggca 369

<210> 30186
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H7

 <400> 30186

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 ggcgaccCGg ctcatggcgg ctTcgTcgcg aatgggctta tccgtctacc tcgccatcat 120
 ggcggcggtg ctgcctcgg cgctcggagc ggagctcacc gcggactact atagcgagac 180
 gtgcccGcaa gcgctgacca ccatcaagct cctcgTcggc gccgccatcc tgagggagcc 240
 caggatgggg gcgTcgctgg tccgcctgca ctTccacgat tgcttcgtca atggctgcga 300
 cggctccatc ctgctggacg acaccgacga catggTcggc gagaagaccg cgaagcctaa 360
 caacaactcc gtgagaggct acgatgtcat agacaccatc aagtcggcgg tgaa 414

<210> 30187
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H8

<400> 30187

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gaccggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180
attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240
ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300
tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360
ggc 363

<210> 30188

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H9

<400> 30188

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gcccattgca ctgaactcag ttttggttgc tagagattct tctgttattt tagaggttgc 180
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tggtgtgat cgtttgtatt tgtccagctt gcaagtacaa gttgggcgat tctttctttt 300
ttgccaact cgtgttctat agaaagacca gtcagcatgt gtggcagcca ggaaactggc 360
atatgtaact gtcgaaatct cctgaacaga atggctgggtg gataccggtg taaccatttt 420
ctctaattct cccattctgc tctctatgag 450

<210> 30189

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A1

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gtgcttaaaa ccctgtgtct acaaaaccca ctgaatctgc cagagttgag gccacatatt 120
ctactgatat tcaactggag aatgaagaag tagataagaa agaagaggac cagcatgcat 180
acacaaccaa tgatgatggt tctaaagagt attgtataat gctcaaatat aaatctgcat 240
aaaataacaa ggcttgattt tttatctaatt gtgcttgaat ct 282

<210> 30190
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A10

<400> 30190

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aaactaaatc atatcgtaat aaatgaatga ttagtataaa ctctgtcat gttcaaactg 120
aatgattaga cagtatataa agaaaaagat aaaaggaatt aaatatacaa aatatttaa 179

<210> 30191
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A11

<400> 30191

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tacttcattc catccatata ccaatccaat ctcatgattc tataactcta ttattaccat 180
atctaattat atataaccat caaactctaa tacactctta 220

<210> 30192
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A2

<400> 30192

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 accaagcgca ctgcgccc aa gtctgacgat gtctacctca agctcctcgt caagctctac 180
 cgtttcttgg tcaggaggac caagagcaat ttcaacgctg tcattctcaa gaggcttttc 240
 atgagtaaaa ccaaccgacc accaatctcc atgcgcccgc ttgtcaagtt tatggaagga 300
 aaggagaaga acattgctgt cattgttggc acagtcacag atgacaaaag gatccaggag 360
 gttccagcaa tgaaggttac tgccctgagg ttcacggaga cagcaagggc caggattgtc 420
 aatgctggtg gcgagtg 437

<210> 30193
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A3

<400> 30193

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 ctccagggtc cagcggccat ggtgaagaag cccaacggtg tcgccaaggc cacggcgacc 120
 tctgctgacg cggcagccca gccatccaag gagaatccgt ccacccctgg gttgggtcaag 180
 gcctcgaagt ttaagaagag aaagggtcaag gccaacggtg cgaagcaggc agtcgctgca 240
 gcagctattg acgagggtcg cccggtaggt gcaggcactg gtgatggcga tgcattctgca 300
 tcagtggctt taccgcaacc atccgatgtt gccgaggcat tacctgtggt gcaaacgcca 360
 aagtcaacca cttttgctga ggcattcacct gtggcacaga ctcaaaagcc agccactgat 420
 gttgaaggat tgggtg 435

<210> 30194
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A4

<400> 30194

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agtgtgaacg tcaagtgcta ccgattgggg aacaacaaaa ttggatcagc ctttccatt 180
 gcagagaact gattatctgg tgctatgctt ctgcaggtag catactgttc aatttggtgc 240
 tgccatctgc aatcgatttg ctacttgac tgctaaaaag ttgacgaccg agactgaagt 300
 tacttttcat gattttgttg ctgtggatgt ggaagctttc cgatgtatat tttctgcctt 360
 tgtcatgttt atttactgat atgctgtttg ttgatg 396

<210> 30195
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A5

<400> 30195
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 ggtcgccgcg caagggcggc gtcaaggcca tctgaccatg gcctgcgatg aaccgcgcgc 180
 gatgcatgca tcatgtcctg ctagtcttag ctggatcagt tgcgtgctta tttgattatt 240
 gttatgatgg cttggtagat ccgaattatt aactgactgc aagtagacag acatatatat 300
 gcgtgtgtgc cttattttct ttactattat atatatgata gttcgtttgt gtgttcttaa 360
 aaaaatatat ttattattta atttatttat ttatttttta ttttaatttta ttttattttt 420
 attttttttt 430

<210> 30196
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A6

<400> 30196
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 ctttggtat ttcttatttt tttctctttt ctttatttac ttttttttat tttcttattt 180
 tatttttttt ttttttttat tttatctttt tttatttttt aattttttat tatttttttt 240

tttttttttt tttttttttt atcttttatt atttttattat atttttttgt aatttttttt 300
 tttttttttt tttttttttt gtttttatta ttatattatt attttttttt tttttttttt 360
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<210> 30197
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-054-Q1-K1-A8
 <400> 30197

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 agtatgatca gttcagagtt aggcaattca gttagtgtgca ggatatttca aattagttac 120
 ccgacctctt tttttattgc atattgatat ctagaataag atcgatccaa atcacttgaa 180
 tgctaatttt gtcaaaagta tccttggtgtg cttaatttaa ccaaactttg ctaccttccg 240
 tcattacatg tatttatcag aattcgcaat ttcgtcctat tttgtaatat ggtgaactga 300
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 tttttgctca tgagctttga gattgccca 388

<210> 30198
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-054-Q1-K1-A9
 <400> 30198

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 ggaggaggtg gaggactgta tgacgctctt aagatcattt ctcattattt ataagcattt 180
 atcttgagtc aacaattatg aactgtgatg gtttttaag 219

<210> 30199
 <211> 363

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-H2

 <400> 30199

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 gaccggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180
 attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240
 ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300
 tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360
 ggc 363

<210> 30200
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F7

 <400> 30200

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 aaagaaaaat ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa 120
 aaaattttat ttatattaaa attaaaaaaa aaaaaaatat attttaataa attaaaatta 180
 aatttaattt tattaataat taaat 205

<210> 30201
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F8

 <400> 30201

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 gctgcaatca aagttaaggc atcagtcac cttgtcttca cctcttctgg acgagctgca 180

aggctcattg ctaagtacag gccacgcatg cctgttctat ctgttgcat tcctcgtcta 240
aagacaaacc aactgaagtg gagtttcaca ggtgcttttg aggcaagaca atcactcata 300
gttagaggcc tcttcctat gcttgctgat ccacgacacc cagctgaatc taccagtgtc 360
acaaatgagt ctgtgttgaa ggttgctctt gaccatggca aagcctcggg cgtgatcaag 420
tcccacgacc gcg 433

<210> 30202

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F9

<400> 30202

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cgcactatgg tggaaattaa aggccgcttc tcagtacat ctgagaatgt ggaccttgca 180
aaggttcaag aaattccagg gagcagtgcc tcacgtaa at tgcaagtgg aagaattttc 240
cttggtccct tgttcataag gaactgttac tttgcttttag atatatccat tttttcaggg 300
gccttcactg agaaaatcag ccagtgttgg cgattgggtca gcaaatgata agacaacgtc 360
tactaatcat caaaagaagg aactctgcaa tagctctgta tctacatcaa ttctg 415

<210> 30203

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G1

<400> 30203

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tgctgcaagg cgggcggcga ggactacagc ctacagggtgc gcaacggcac ggctgcctg 120
gcgcccacca accgcggga cgagtaccag cactgggtca aggacatgcg ccacagcacc 180
cgggtgcggg acgaggagg ctaccggcc ttgcgctcg tcaacaagg caccggcgag 240
gcgtcaagc actccacggg gcagggccac cccgtcaagc tcgtgcccta caaccggac 300

taccaggacg agtccgtgct ctggaccgag agccgcgacg tctgcaacgg cttccgctgc 360
ctccgcatgg tcaacaacat ctacctcaac ttcgacgect ttcacggcca caaggcccac 420
tgcggcgttc atgacggtac cgagatcgt 449

<210> 30204

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G10

<400> 30204

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gaggagtggc tttatcgata aggcaactat acttggttac acaatccata ttcttaaaga 120
tttgactact catgtgaaca agctgaaagc tgaatacact tcactttctg aagaatcgtg 180
tgagttaaca caagaaaaga atgagcttag agatgagaaa gcttcactga aatctgaggt 240
tgataatttg aataatcagt atcagcaacg aattctggtg ctatacccat gggttggaat 300
ggagccttct gttgtcatgg ggccaccttc tgcataatccc taccagtcgc cagttccaat 360
acccttttgt gctgtaccca ttcat 385

<210> 30205

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G11

<400> 30205

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agggagtaag cttggccgtg acctctatat caggatatca agtagtaagt ccgtaaactt 120
agaaattctg tactaaacag caaagccaaa cgaatatgta gagtgagcga acagacggga 180
cgaatcccaa aacgttttcc tactactgcc ctacagcctt cgttcgcgtg atgtagggat 240
cgagagcgcc ctcatagcgg tggccctccg agcccgatc cgttgtcgaa ctctgtcgtg 300
tgatccaaga ggtagttggc ggtcagctgc tcattcttgt tgcacgcgaa gaacaacttc 360
aggaccagtg cccggtcaaa gcccatccct tcaagacgaa gtatagcttc gttctccttt 420

ggagtcac

428

<210> 30206

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G12

<400> 30206

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cagtttctgc cttccgaggc agccaataat atcccaagga gccccctgg aggcgagaac 120
aacttcatgc tgggatgggt tctttgagtt gctctgttaa tcatccatcc atcagatgga 180
tgtccaaact aataaaaggc actcagtgc accatatgca tatccatgct taagtgcctg 240
atttgccacg acgtgggata tcttttaa atctcggttct ggtgtgtaaat aactaattaa 300
gaacggcacc ttcattctat ggttggtgtg tggcacttct atctatgggt tttgtatttg 360
gaccacgaat gttgtaattt gtaaaaaaaaa atttaaagat ttatctatgc tgccggtgct 420
gcggtgcata gcccggtgca tagaatcc 448

<210> 30207

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G2

<400> 30207

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tgcagcaata gaggaaggta ttgttccagg aggcgggtgca gcatatgttc atctatcgac 120
attcgtaccg gctatcaagg agacgttggg tgatcctgag gagcgcttag gtgctgatat 180
cattcagaag gctttggtgg cacctgcagc gctgatagcc cataatgctg ggggtggaagg 240
tgaggtgatc gtggataaaa tccggtaacg ctagtgggag ttcggttaca acgcatggc 300
ggacaagcac gagaacctgg tggaggctgg tgtgatcgac cctgtcaaag tgactaggcg 360
cgccctgcac aacgctgtct ccgtggctgg aatgggtgctg actaccaag caatcgatgt 420
gga 423

<210> 30208
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G3

<400> 30208

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at tt tt t t g g t c t   g a a c t c g g c a   t c a g a t a t t c   c a g a g c t g a t   t g g t a c c c t a   g a g g t c c c t g   60
a t a t c c c t t t   c t c c t g c a t c   t c t g t t c t g a   a g a g g t a c a g   c g a a g g c g a c   a t g g c g g c g t   120
a c a a g a t g t t   t t c a c g g g c a   a a g c t g g a t g   a t g g t t t g c t   g g a t c a g a t c   t t c a g g g c t c   180
g g a t a g a g a c   g a t c c g g a t c   a a c t g g g c t g   c t t a c c c g c a   c t a c c a a g c c   c c a g a g g a g t   240
t t g c t c c g a t   a g c g t t g g a c   c g g a a g c a g c   t g t a c t a c g t   g a a c a c c t t t   g a g a g c g c c t   300
c g a g c g c c a t   a g a a a c t g g t   g c t g t a g c a g   c a g a a a a c g t   g g c g c g g c t c   a t c a t c t c c a   360
g g c t c t c t c t   a c t a c c g c a g   g c a c a g c a g c   a g c a g c c t c a   t a t c a t c a a g   t c a t t c c c c g   420
a a c a a g g a a t   c c                                     432
  
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<210> 30209
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G6

<400> 30209

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t c c t c c a c c a   a c c a c g c c a c   c a t g c a t c t t   a t t c t a t c a a   c t c a t t c t t a   t t a t c a a c a t   120
t a c a a t a a t a   a t t t t c t t c c   t a t c a a c a a c   a t t c a c a t c t   a c t a c c t a c c   t t t c t g c t t a   180
t a t a a t t a c a   t t a c c t c t a c   t a t c t a c t t c   t c t a t t a a a t   c t a c c t c c t a   t t t t c t t c a a   240
t a a t t a t c t c   t t t t c t t t a c   t c t t c t c t t a   t a t t c t a t c t   a t c a c a t t a t   a t t a t a t t a t   300
t c t c a t t t t a   t t t t a t a a t t   c t t a a t c a t c   t t t c t a a t t c   t a c t t t t t c t t   t c t a t t a a t t   360
t t a t c a a a c t   a t a t t a t t a a   t t a a a t t t a t   t t a a a a a a a t   a a a a t                                     405
  
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<210> 30210
 <211> 448

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G8

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 attataccat tcaaatccca gttcaatctt ctcacatcg ttgaatgtag gattcagttc 120
 aaagaatgac cgttctactc caatcaacag tcattttgtac tggacaatga ggcagacaag 180
 aactgaatcc tactctgcta gcattaacaa agctcctact gaaaagaagc aagaatctgc 240
 tactttctggc tgcagattgt ttggcattga gataggttct gcagtatcac cagtggctac 300
 tgttgctagt gttggccagg atcagccacc tgctctctca gtagacgttg aatctgatca 360
 gctgtcacag ccatccaatg ccaacaaaac ggatgccccca gtggcaagca gcgagcgctc 420
 tcttaacgag tcagagagcc ggcaagtc 448

<210> 30211
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G9

<400> 30211

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 aatgggtaca tatttaatat cgtatcaagt atacggtaaa tttatagggc caataaacca 180
 agcatacaat acaattatgt ttactaatg aaggaaagca aaagtcgtta ttcaagaact 240
 attcaaacta gggtaacttt agacttggtc aa 272

<210> 30212
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H10

<400> 30212

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ccaccactta ttcttttcag ttccacacac tcctccattc tacgtctacg cctatacgct 180
gccttacctc ctgcttcgag ctgctcgcg taactgcgcg accatcaatg ctactatgc 240
agtatctacg ttcggtggca t 261

<210> 30213
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H11

<400> 30213

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gccgcgctcg tctgctgaa ccacggctcg gacgagaccg gaagcagcat cccgaagggg 120
aagttcccg cggggttcgc gctcacgctg tcggcgctcg cgctcttctc cctgacctg 180
tcctgacgc agctgacctt cgacgaggtg ctgaagagcg actcgctcca aaccgtgctg 240
gagatgcagt tctggagcaa caccgcggt gcgctgctgt ctgtggccgg gctcttcgcc 300
tccggggagt gggcacccat cttcggggag atggatgctg acaagaaggg ggaggtggcg 360
tacgcgatga cgctggcgtc gactggcttc tcgtggcagc tgtgcacgat gggcctcatg 420
gggctggttg 430

<210> 30214
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F5

<400> 30214

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tttaatttta taaaaatgga aaaaattaaa aatatttttt aaaaaggata aaatcaaaaa 180
ggaaaatttt tttaaaaaaa aatcattaaa attttaaact tcttatgtaa ataattttta 240
aatattgact tattaaaaaa cttttttgtc aaaataaaaa aattcacttg aaatgttttt 300

aaataattta aaattataat ttttttataa ggcctattat taacaaaaat taaaaattgt 360
cctttttttt 369

<210> 30215
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E10

<400> 30215

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atacaactaa acacaaaact aactaacata cataacaaca taaaattcac ctccaacaat 180
tacaacccta tcatccctat ccttgcaact ccccctactc tccttcacta tcaccatcta 240
tctctccctt ttcttccaca ccatcaaacc cacacttaca ctcttttcca tactt 295

<210> 30216
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E11

<400> 30216

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tccttgtaa tgtaatagtc ctggtcctcc aaaagggtcca cctaagtttc ctcaacgatt 180
ccaatcccaa aaattccttc cgccagattt ttaagaaggg ccctataacc ccggtttgcc 240
ctggccttcc taaccattgc caccacccat tccaaatttt ataccttcct tttgttccaa 300
ttcttt 306

<210> 30217
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E12

<400> 30217

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aggctgggcg cttcctggga ccgagcaagg ccgtgatccg aggcgcaacg ggaagccaaa 180
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aaacagctgg tttgtactac tatgcaaggt ttaggttcaa gatcgtttca aggaaacgac 300
ctgagggtcca ggtaaccgga gtccgtccag cacatcgctg gctattgtct gattctgtag 360
ctgtacaatg ctctgctacc ttattatccg tgatgtgaaa cattttgtgt cgtccagtc 419

<210> 30218

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E2

<400> 30218

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atcagatact tgtctagtgc ctacatgcat tccaaatcat atgcaaccac tctgtacata 180
tctgacttat ctacttagt atgggactgt gctt 214

<210> 30219

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E3

<400> 30219

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gaagaagatc gaggacgcca tcgacgcggc catcagctgg ctggacgcca accagctcgc 180
cgaggcggac gagttcgatg acaagatgaa ggagctggag agcctttgca accccatcat 240
cgccaagatg taccagggcg cgggtgccga catgggaggc tccggcggca tggacgagga 300

cgctccggct ggaagcgggtg gccctggccc caagatcgaa gaggtggact aagcggtttg 360
 tgtcagtctc gtgtgtctgc tgcagtgggt ggctggccca atcgctgctc gatttatcgt 420
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<210> 30220
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E4

<400> 30220

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 tgagagctcc tcaagagcaa cctcggaggc ctcgtaggag agctgcccc a tcatttagca 180
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 attcaagagc acacgaagca gtcaaccagc ttttccagcc agtaaattctg actcttgagc 300
 agcttgtcag gcataagcta agcgaagggc gaaagttcac atgccgcttg cttggtgtga 360
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 tggaagttct ccttgagatt gcaaaattct 450

<210> 30221
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E5

<400> 30221

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 aggaatgaag aagatggagg acaccatcaa cgctggcatc aactggcttg acaccaacca 180
 tcttgccata gcctatgaat tctattacaa gattaaagaa ctttagagcc tttgcaacct 240
 cattatcgtc aatatttacc aaggctctgt ttccctacatt tgaagcttct tctgcatt 298

<210> 30222
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-E6

 <400> 30222

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 gcctgcattt cgggtgccta cctccaatcc aatgctttgc caccagtagg gttgtttttg 180
 gtattcccta acttgtatcg ttatttcccg tggttttaca agtcgaagaa ctctagggtc 240
 agctgttatt acacctccaa tatatccatg aatacaggaa tgggcaacta gtctgctaaa 300
 aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattataat aaatataata ttatttatat 420
 taatattaat ttttat 436

<210> 30223
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-E7

 <400> 30223

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 ccatatcctc ctctcctacc aactaacaa tatctaggac accatcgacg cctccatcat 180
 ctcactccac tccaaccatc tctcctattc ttactatttc tataacaata ttaatgatct 240
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<210> 30224
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-E8

<400> 30224

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gcgactgcgt gcgggcgggc gagcgagcag gcagaatgga gcgccactcc cagaagcagg 120

cgccgctagt cctcgcgctg tctgcctcc tctcctcgc ccccgccctc gtcttcgccg 180

tccccactcc aagaagcctg cgcttggggg gccagcagca gcacccgccg gctctgaagc 240

tcactttctc tcaggaggcg gcgatcgcg cggcgatgaa catgggcagg ccgactgcta 300

gggtggccgt tgagggtaac gactaccaac cgccggccc caacataccg tacgacctat 360

ccatggggccc ctgaagagct tgt 383

<210> 30225

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E9

<400> 30225

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ccggtaccag ggcgtcttct tcggcacgag cgtgcagctg ggcgccggct acctgctgc 120

catcacgctg gtgttcaccg ccggcgagta caaggggagc accctgtccg tgcaggggccc 180

cctgctcggg ttcacgggca ccatcgagcg cgccgtggtc ggcggcacct gcaagttcag 240

gctggcgcg gcgtacatgc ttttcaagat gataagcaag ccgacgcctg agacggacgt 300

caacgagatc aacctgttcg tgctcatgca ccccgctggc aagtactagc gcacacacct 360

tgagactcga gtgagtggct actaccgcat tgttggtggg cagagggttg gtgaagtgtc 420

tat 423

<210> 30226

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F1

<400> 30226

gaccaatcaa ctgatcttgc tctcgtagg aggaagcaaa aaaaaaaaaa aaagaaaaaa 60

ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga 120
aaataaaaca aaataacaat tctataatga cacttaaata aaataaaata gtccgaaaat 180
ttacaacatt aaaaactaaa aaaacctcgg agtaaataaa cttaatcgac tttaaaaaca 240
ttaccattac gcaagttaac atattagcaa aaaatacctt atcaaccaga a 291

<210> 30227
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F10

<400> 30227

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tgggggggtca ggacaagatc agacctctct ggaggcatta cttccagaac acacaggggtc 120
ttatctttgt tgtggatagc aatgaccgtg accgtgttgt tgaagccaga gatgagctgc 180
acaggatgct gaacgaggat gagctacgtg atgctgtgct gcttgttttc gccaaacaagc 240
aagatcttcc taatgccatg aatgctgctg agatcactga caagcttggg ttacactccc 300
tgcgccagcg aactgggtac atccagagca cttgtgccac aactggcgag ggtctgtacg 360
agggcctgga ctggctgtcc agcaacattg cgagcaaggc ttgaatatca aatgcgaact 420
gactaggagc tccggatgta tcatggaaac t 451

<210> 30228
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F11

<400> 30228

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acaaaaaaaa aagaaaggta atattaaaat ctaaaaacat ataataaaa tcaattacaa 120
aatcacaca taatctaact atgttaaaga atcaaaagtc aactttatag tgacatctaa 180
tactgttadc ctctcaaaag tttaccaaata tacaattagc ttcaccttac ttaaataagca 240
ttatttaaca actttccata cctacctaata tatataaaa 279

<210> 30229
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F12

 <400> 30229

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 ggatggggtc ctactatatac tcacttatcc tatgtcagct ctttcagcgc tcaccctaaa 120
 ctctctataa tctatactac cagtcctctc ctcagtctca tctaactctg tcactccttca 180
 caagatgcac gaaatcacaa taagcttcgc gttacgtaac ttccaagtgt caagaactcg 240
 actaatccaa ctaatcataa tgatccgtta ctatagctct agatatactc tagatttt 297

<210> 30230
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-F3

 <400> 30230

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 gtgcaagaat tcagcatgtc tctttgctgc tttatcattg aacttcccat tcttgtcttg 120
 ctgtcacgtc ccctgggggtt caatactatg atgcacacag catcctggca gctgcaagaa 180
 ttcattccca gtcgagtcac gaaaatgggt tgcgtgttgg ctatgtcgtg taagcttatt 240
 cagttattct tgggtgggttg ggtcgggtatc gtgtcattcc ccgttttaggt agctctgtaa 300
 tctactattc tcattgtgtg tgccttccaa tcagtaatag taatcagcaa ttgtctgcca 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaataaaa aaataattaa aaaaaaaaaa 420
 ggggcggc 428

<210> 30231
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D8

<400> 30231

attgtgtgtg tgtgcagcac atataatccg ctctctctcc cccggtttct cttgtcttct 60

ggctgcggcg atggaccaag aaacctcacg ggaacccac tccttgagga gccgtccagt 120

gcgcattag tgggttccat tcttctttgg atcgtctgtc gcgatcgcat tgcccgcgtt 180

tcttttggcc gtcttggttc gttcttgatt cttggacgag gtgggatttg gagagccgag 240

agcggcgcgg cagcggcggg tttctcggtc gggctagatt gtttccatcg agatggtggg 300

cggctgaagg cattcgtcga tggaccacac ttgcgccaaa gacctcgagc gcggcgagct 360

tcgccgtggc gcgcctgagt ttgcggacgg cgacgatgga gacggggaag aaagccagta 420

ct 422

<210> 30232

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C3

<400> 30232

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ctgctacgtg ggcaatggcg cctcccgaca ctgtcgcccc atcatgcttc tcttctcctg 120

tgcttacacg gtctccatga ctgcatagca cttctgtatc aactgggcaa cctgacgttg 180

tcgctgaacc taactcgata tgcaaaacttc aggetcatct cctcattgcc agcaggcact 240

ctcttaagcg tttccttgcg aaacgcctcg tccggatctt caggcaagac tccatacgca 300

gcgctaagtc attcgatggc atggagtcac cgatgattga cgtgacatgc tta 353

<210> 30233

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C4

<400> 30233

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gcgaccgccg cggcctcggc cgccgccgcc aaggagcggg aggaggtgca gcggcggaag 120

cagcgcgacg aggaaggcct tcacctgctg acgctgctgc tgcagtgcgc ggaggccgtg 180
aacgcggaca acctcgacga cgcgcaccaa acgctgcttg agatcgccga gctggccacg 240
ccgttcggca cctcgaccca acgcgtggcc ggctacttcg cggaggccat gtcggctcg 299

<210> 30234

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C5

<400> 30234

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cctcgccacc gaccgctcgc gaagagatcg atggctcatg ctgctacgct cgctgctgca 120
accgcagacg gcgtcctaata cggcctctgc tgcctgctccg tttccgaggc cgacagcaac 180
agcaccaaca cgaggcacgc gtcgatagcc cacggcctgt ccttggaacta tctacaaacg 240
gatctggctc atggccgagt gcggcacgcg gatgttcgag caagacaccc tgcgcatgga 300
cac 303

<210> 30235

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C7

<400> 30235

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ttagttaacc aatttcttaa caagctggct tggtagagtt ctataccgca gaagccctcc 120
ttgcgctgca agaggcagca taattccact tgatagaact gtttgaaatg gcgaatctgt 180
gtgccatcca tgccaagcgt gtcacaatca tgcaaaatga catacaactt gcaaggcgta 240
tcggaggaag gcgttgggca tgatatataa tatccattct gattgcatca ttcttggtgaa 300
tttgtttgta tgagctagac attagtgttg ttgaatgctg catggttcct aatccttttc 360
gcagtctaac atctgtggag ttagtatggt acatggcaac agctgaacat ctgtggacta 420
taactatatg gcaacatccg aagatttgtg ctgtgggata actggttggt ttggttgctc 480

ttc

483

<210> 30236
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C8

<400> 30236

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gaaggctcca tgattgtagt gctggccagc agcgtaaatt gtgaattctg ctttttttta 120
tacgtggtgt ttattgtttt agagtaaatt atcatttggt tgaggtaact attcacacga 180
actatatggc aatgctgtta tttatacgca aagactgata cattcttcgg attgtgagca 240
aacagtcaga aactgtaat ctcttaggac aactatataa ggcagctgtt gtatcaaaaa 300
caaaaaaaaa aggatttata ataaaa 326

<210> 30237
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C9

<400> 30237

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ctgttgcatg agtacagaaa gtcattggct tcgagaggta gcgtggtcag ccccaaaaga 120
tttgtgatga caactcaaat atgagcttca acatgctctc ctgaagctcg aagcatcaaa 180
aggcttcaac aacacagtaa aagggtggaaa tgcaaatttt ttctttggag agagactaac 240
tactggtatt gagttcttca tgtgcgaata gattgcaatt tataacagtt tattgcttac 300
tggattagca tcgtctaata agatctggct tcaagttact tagaagtctt acagatcaca 360
gtgtccagtg attgtacaac ctttttcttt ttaatccctg ttcgatttgt ttc 413

<210> 30238
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D1

<400> 30238

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ctccgcctca tggagcacct caagcacctc tccagcatcc acctcaccat cctctcctcc 120
cagatcactc aatcaactga ctatgcatat ctctgagacc atcaaccatt tctctcaacc 180
atgaacctag ttctgaatcc tgatatgctg atctagaagc gtttaaatac catcctattg 240
tctctcaact ttcatttcaa tcaattcaat gtatttgtca aggatcagct ttcgctttat 300
gttgattatt attattgcaa tgctccaatc acgaccttca tcctctatcc attttatcca 360
cattatca 368

<210> 30239

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D10

<400> 30239

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ccggcgcttc tgatgctttc cgccgtgcga tgtggtgccc ttcgccggtg gcgcccgcgc 120
ccgcacctcc tcccacgcat cctttcctcc tcctttggta catctcccgc gcgaccacag 180
gtggggggcg tgctggagct cccggaggtg gagaaggtac tgcgcgacgt acgagcgggt 240
gacgtgcgcg tattccccgt cggcgagagc ggtctgcacg gcggggcctg cgccgactac 300
atggtcgtcg ccacaggccg ctccgattgg cacgtccgta acatcgcgca tgcgctcttc 360
tacaagataa agcataagca gaagggtctt gatagaatat tgatgccaag tgtagaatgt 420
cagcaagccg ggaaaatggg gtggca 446

<210> 30240

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D11

<400> 30240

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<210> 30241
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D2

<400> 30241

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gccttcgggc ctgccgctgg gtaggcatct cgcggagaag aagactaacg gcacgaaagc 120
tgtccagggc gaaaaatgcg atggcgagtg cctcgtcaaa tctagtctcc tcgaaggaac 180
tttcgttggg atagtgtctc tcatcatcct gatatcagga ctcatgtgca tgatggggat 240
cgatactccc tcgaggtttg aagctcccca ggagtcttga tctctccctt ggactgcaga 300
atccgcgggg gggttgtgac gagggcacgc ggcggcggtt aggggggccg gtgttctgtt 360
gggtctgact gtggatatat atccgttagc tttccatttg gaaggtagga cgccttgtgt 420
atTTTTTTgt accgagccaa 440

<210> 30242
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D3

<400> 30242

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cgtgtcatcg agcacttgac acatacgcac cgcacgaaga tgactactct gctcactacg 120
accaaggcac tacctgaagc tttcagaatc tgtgatatcc atcaagccat aaagtgagag 180
agaacgaacc ataatagtgt gctgggatgc cgtccgccaa cccgcctaga tatcttcgct 240
tgtctgtctc caaccttgaa tgaaaatctg atgaactctg ctgaaaatat cgtctgtatg 300
ttgacatgga tcatgattct atggtatcta tctataatat ctgtctcata agctttgata 360
tgaagcgtga tctggttc 378

<210> 30243
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D4

 <400> 30243

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 acctaagtgg tcatgccttc ctatTTTTTgg ctgacatgtg agtttttagat atctctctca 120
 tttattcaac gggagtactt gaaaacatat ccacatgcta gtatattgat gatgcaaaac 180
 catggaccag cagtgtgatg ttgcatttcc ttgtgcatca cataatgaga ttgacaaggg 240
 gaggtgtgtg caatcagcaa ctttgttgct ttcttgtcag tgtcaaattt gtctgcctgc 300
 taagctttga tt 312

<210> 30244
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D5

 <400> 30244

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 tgctatggag cacctcaagc gcctcgccag catcgacct accatcctct ccgcccagat 120
 cacccaatca acggacttcc cgaacctggt aaccaaccac cattgctttc aaccattaac 180
 ctagtggtga aaccgatat gctgttctgg aagcctgcga agagcagcct ttttggtttt 240
 caacttgata ttaattcaat ccaaggattt ttcaaggaac cgctttgggt ttaagttgag 300
 attggttgct tcaaagctcc aatcacgacc t 331

<210> 30245
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-D6

 <400> 30245

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gctcggccgt gcctttctac tttagaggat ggattcaaag atgagatgtg gatgtggttt 120
tctgcaggag ccaagaacat gtgtccctt tttgaccctg gttagagaaa ggaaagtctt 180
gtagcctctt ggtaggctgg ggtgggtggg tgtcgtgtgg ctggtacgtg ttagcgtgtg 240
tgtgttctat tcgtctgtgt atgtttgcaa gtttttcttg aatcttttta tcttttttt 299

<210> 30246
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D7

<400> 30246

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cgttcgcccg acttgttgac aaatacgcag cggacgagga tgctttcttt gctgactacg 120
ccgaggccca cctgaagctt tcagaattgg gatttgctga ggcgtaaagt gagagagaaac 180
gaaccagaag agtgtggtgg ttgtcgtcgg ccggcaggcc ttgtgttttt gttgtctgct 240
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ttcatttttc tattttatgt atctataata tctgtcggag aagctttgat atgaagcggg 360
atctggttcg gaacaaataa aattgaatta tatttattat tattatttaa ttatttttat 420
ttattttata ttattttatt ttttt 445

<210> 30247
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C10

<400> 30247

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taaataaaaa aacaaaaaaaa aaaaacaaaa agaaagaata caaaaaaaaa caagacaaac 120
aaaaccaaca aaaaaaaaaac aaaaaaaaaaa aaaacaaaac aacacaaaac ttaacaaaca 180
acacactcac aacaaccacg aaaactcaaa actcttcaac aacacacaaa aaaacaaaaa 240
taccaaattt ctctatgacc acacactaac taatgatatc caactctcca ccaccgcaa 300

taatgcaacc cacaac

316

<210> 30248

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A6

<400> 30248

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gcgggctgaa gacgaagagc actcgagcga ctttgaaccg gaagaaaacg gtgaggggtgc 120
cgacgatgag gagatcgatg aagaggacga tgacgggtgag gactctgtga aggcgcagac 180
ctctacgaag aggaagaggt caggcgacga agaagaagaa gacgacgacg atgggggatga 240
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gttttgtagc tgtgtccttg ggtgtttggt aggtaggtag tgctgctgat gttggtttag 360
aagaactcat catcacctgg gatatgtgtg tgatttggct tggccgatgg atgaatgatg 420
aaggctcttg actaaaaaaaa aaataaataa aa 452

<210> 30249

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A7

<400> 30249

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agctggcgta atgaaatcaa gaagatggag gtatctcagc attccaagta cttttgcgag 120
ttctgtggga agtttgctgt gaagaggaaa gcagttggaa tttgggggtg caaggactgt 180
gggaagggtga aggctgggtg tgcttacacc atgaacactg ctagtgcggt caccgtcagg 240
agcacgatcc gtcgcctgag ggagcatact gaagcatgat atagctcttt atattattgg 300
ggtttctgt aattgctctt gtcaggcatg ttgtgggggc cttctctagt ggaaatgtgg 360
aatcactgta ctggctgttt tgccgagaca atgctcctta tatttggttt at 412

<210> 30250
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A8

<400> 30250

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cggaacacg agaaaacgtt gagaaatgtt ttgaggaact tgcattgaag attcttgagg 120
tgcctagtct cctagaggaa gggctcttctt cgggtgtcaa gaggaacatc ctgaaacaga 180
agcaggaaag tgatgcaaag aacggtagtg gatgctgtca atagatgtat gtgctgatcc 240
acaccacacg gttggctttc ttcgtgtgag ctgccctgat tgtctgctgt acatgttctt 300
gtgagtaaga agggcgagca taattgattt gtacaaagga catgtcagtt tgggtgcata 360
gttttctca tctccagttt agtatagcaa ttttgttgtc gccctatcaa aaaaaaaaaat 420
attatttttt tt 432

<210> 30251
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A9

<400> 30251

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aggagaagac ctacgatgaa aaggctggga tcggtatgcc cgatctatag ctgcggagag 120
ttcactgtaa tgtgaccagg acctgactcc ctgtgctgtg ctgtgctgtg cttcccgcgt 180
aataacggtg tactagttac cttctttgca gaaaatgctt tctaggaatg agagcggaaa 240
tatttctacc atttatttaa ggtcctgttt ggaaacaacc caacagtttt taagacacca 300
gtttttatct tttagctttg agagaccaac ttcttgtttt tatgaaagtg ggaatc 356

<210> 30252
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B1

<400> 30252

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tggcgtaagg aaatcaagaa gatggaggta tctcagcatt ccaagtactt ttgcgagttc 120

tgtgggaagt ttgctgtgaa gaggaaagca gttggaattt gggggtgcaa ggactgtggg 180

aaggtgaagg ctggtggtgc ttacaccatg aacactgcta gtgcggtcac cgtcaggagc 240

acgatccgcc gcctgagggg gcagactgaa gcatgatata gctctttata ttattggggg 300

ttcctgtagt tgctcttgtc aagcatgttg tgggggcctt ctctagtgga aatgtggaat 360

cactgtactg gctgttttgc ccagacaatg ctccttatat ttggtttatg ctct 414

<210> 30253

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B10

<400> 30253

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aggcaggcta atgttacaaa ggtgaatatt tttcttgaat acatgtgcat tttcatgtct 120

ttaactctag atagatgctt gttgatgtgg taaagctgtt gatccttatc ttgctgatta 180

ttatcaaaat ttactcatga ccagtcata cttcatagca ggtatctttc ataaaagggt 240

tgtccttttg ttccattgga gaagtactaa aatgcacagg tatctaccgt gttccatctg 300

ccaagacacc aacgttcaac acaagcagca gttcagatag accaccatca tcacaattgc 360

tcacaggatc atgtcagttc ttacatccac atggtgttcc ttcttgataa cggttagtgc 420

ctaccatgga cagcggctag tacttgc 447

<210> 30254

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B11

<400> 30254

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tcgtgtgttc gagttccagg agctcccgaa acctgaggtg ccgcaccag tgccggagct 120
gaccaagccc gaggtgccac ctcacccgac agcgcgccct aatctcccga aacctgaggt 180
gcctcatcca gtgccggatc tgctcaagcc cgagctgaca cctcaccgg cggccgtgcc 240
cgagctgccg aagcctgagg tgccgcaccc aatgccagag ctgcccaagc ccgaagtgcc 300
acctcaccgg acagccgtcc cggatc 326

<210> 30255
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B12

<400> 30255

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tggtgtttcc gagggccgtc cagataggca gcctcgaatt tgccggcctc tggatatcta 120
tcttctttct tgctcagcgg cagcgccatc ctgggcctct ccttcctggg tccgtgtoca 180
tgtttgattc ttatcttacc ggagctgtgg ctaactgaaa gagctgtctt tggttggcct 240
aactttagt acgaccgtat ttattaatta ctagaagacg tttatagagc ttacgatgta 300
cggcgaggtg atgacatggt ggcatagcgt agtgtaattt ttttttggcg ttcgtctcgg 360
ccaaaacata gcatacatag tccttggtt 389

<210> 30256
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B2

<400> 30256

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ggggttcggg caccaccacc acaaccagcc ggctccccg gcgtcgggcc ccaaccaggt 120
gttcaagatc ttctgccgcy ccaacgagaa ctactgctg gccgtccgcy acggcgccgt 180
cgtgctggcc ccggtcaacc ccaaggacga ccaccagcac tgggtacaagg acatgcgctt 240
cagcaccggg gtcaaggacg aggaaggcat gccggcgctc gcgctcgtca acaaggccac 300

ggtgctcgca atcaagcact cctcggcca gtcccacccg gtcaagctcg cgcctttcag 360
cccggaccag gaagacggt cgggtgctgtg gacggagagc aaggacgtgg gcaagggtt 420
ccgctgcac cgcattgtca acaacacc 448

<210> 30257
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-053-Q1-K1-B3
<400> 30257

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agttgcgtgg ggaccagct agcagcagca ctcttgctgc cagcgtaa atgtgcagtca 120
cacacagcct cagtgtccct aacaaccagc gtgggcagaa accactggca atgcgtatcc 180
cgatgtctta caaagtgaat ggagaagaca ggctggagca agggcacatc agcaactgtc 240
cttctgggtt gtagtgccac ctgtgtctat tgagttgaga gtgctcgatc agcgtgctac 300
aagcatagcg tgtgtgttct agatctcgaa catttgacg tgtgctgctg cgctaattggg 360
ttgtgtacac tggtaattgg tttaggctgc ccattctctt ttata 405

<210> 30258
<211> 130
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-053-Q1-K1-B4
<400> 30258

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tggcagcatc tggtcgccc gccggctctg gcaacggctc tgctgctgct ggcagctggg 120
gccgggaccg 130

<210> 30259
<211> 342
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-053-Q1-K1-B5

<400> 30259

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ccagatatcg ggctcgcagg cgttatgaga tcaatatcac tgctgtatat gaccattcca 120

tgtacaccag ccagttctgc atgaagttag ctgctctaac gaccgctata tgcagtttct 180

gctgcaaagc ctaatccaaa gcacaggctg cgtgtgctta caccatgaac actgctagtg 240

cggtcaccgt caggagcacg atccgtcgtc tgaggagca gactgaagca tgatatatct 300

ctttatatta ttggggtttc ctgtagttgc tcttgcagc ca 342

<210> 30260

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B6

<400> 30260

cccacgcgtc cgcgcagaag aaaccccaga gtactctgat cataggaaga aattctggtc 60

tgctgtcaag cctgcccatt ttggcgtgaa gatcgctcc agatccctgc tgatccttgt 120

gcgcttcac ttcaccgga tcttcacggt cctgctcgcc aacttctcct tcggcaggtc 180

cctcctgctg aagtaccctg agtttttctc cgctgggctg ttcagcagag ccggcccgac 240

cgaggaagag gtgaagagcg cctcggtcaa gatgtggttt gtcggtcacg gctacagcaa 300

cgtggatagc tcgttgagc tcggaagaag caagccggac aaggagggtga tcaccaaggt 360

ttcgggaccc gaggtcggtt acgtcacaac tccgatcggg ctgtgtcagt gcgctcttgt 420

cctgctgagc cagcgtgcc aacctg 445

<210> 30261

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B7

<400> 30261

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gcggagccgc ttaggccagc cggtcgggcc agaggcatat ccttgctctg gatgatctat 120

ctggtcgctg gaggggtcga aaggacgct tgactattgt cagcgcggga cgcaatgctt 180
tcagctgtga aattattatt caggcttgaa ctaaaggtag tgtacgaagg tcctacagta 240
atattattga atcagagaga actgagttta gagggcaaga ggaacaagaa ctgagtttag 300
ggtgaaagag gatgattaca aacaaatgaa cgtgagagtg agcag 345

<210> 30262
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B9

<400> 30262

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ctattggggcc aacacagcaa gctctgctcc tgtaattcat ggcaaagtga cccaacaac 120
agttccaggg gctgtggtcc cagcagagca atggatacag gatgaacgtg aactcaaaag 180
gcaaaaaaga aaacagtcta ataggagctc tgcacgcaga tctaggttgc gtaaacaggc 240
tgaatgtgag gagttggctc aacgtgctga tgttttaag caggaaaatg cttcacttag 300
agatgaagta aaccgtatca gaaaagagta tgaggaactt ctatcaaaga ataattcact 360
aaaggaaaaa cttgaaagca aacaacacaa aactgatgaa gcaggactta acaacaagct 420
gcaacattct ggcaatgaca tccagaaaaa aggaaactaa tcgagc 466

<210> 30263
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C1

<400> 30263

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tgctgaatag agatcggaag ccccaaacc gaacgaagct ttcacataat tcgatggata 120
cctttattcc acaaggcatt ataatcagcc ctttgcagag gagagtttcc caggataaca 180
gaattaacag taacatctgg accgtgttga taaaccacca aatgttcccc tatcatcaca 240
gacgtctttg gctgctcgtc gtgtgatgta tcattctgcc gtacaaaagg atccagatca 300

ttcttactac tggacagata ttgtatTTTT ctcatatgtc ttgaaatcaa atttatacat 360
 tttctgtgtc tatgggtc 378

<210> 30264
 <211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A5

<400> 30264

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 acaagccatc cttccggaga ccggttactc ttgataaaga ctacatctca atctcgcatg 120
 tcaacacaca tctgcccata ct 142

<210> 30265
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G7

<400> 30265

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 aaggatgtcc tattagttagg tgatgaccca tgggaggact tcgtgaactg cgtgcgggtgc 120
 atcaggattc tttcgccgca ggaagagagg caaatgaggc tggccagcga ctacggagac 180
 agctttgttg gcaaccaagc gtgcagcagc tcggacggag gtcgcccgtg gagtggcacc 240
 ggcgactaga aatagcaggc gatgtctgag cacaaatgtt tgggtataatc cgtccaacga 300
 ttgcaagaaa atga 314

<210> 30266
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G9

<400> 30266

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atgccctctc cccatcccat ttcccagatc ccaccaacgc agcgcagggga tcgagtagcc 120
caccacccca ccccgcgacg ctaaccgacg caatggcgac gctcacggtt ccttcctccg 180
tccccggcgt cgccgaggac tgcgagcagc tccacaaggc tttcgaagggt tggggcacca 240
acgagaagct gatcatctcc atcctggccc accgcaacgc cgcgcagcgc cgcgcgatcc 300
gccgcggcta cgccgaggcg tacgggaagg agctgctccg cgctctcggc gacgagatcc 360
acggcaagtt cgagagggcg gtgacacctgt ggacgctgga ccccgcgag agggacgcgg 420
tgctggcgaa cgaggaggcg aagaagagcc acccc 455

<210> 30267

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H1

<400> 30267

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gtgggtgctg aggctacggc ggcggtggag gaagagggtg tgggtgggtat ggcggtggcg 120
gcagctgctg cggcggtggg tacggaggcg gtggcggtta cacaccggc tactctggca 180
ccggcacctg cgactactgg aagagccacc cggacgccat catctcgtgc a 231

<210> 30268

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H10

<400> 30268

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cgtcgtccgc cgccgccgcc ggcgagcgg ggctcgtgtc cgccgcgtcg ccggcagcca 120
gcgacttcgt ccgcaagtgc tgccgcacga cgcagtaccg gtcggtgtgc gagcagagcc 180
tggcgtcgta cggcggtcgc ccgccgccgc ggagcccgcg ggagctggcg cgcgccgcgc 240
tgtcggtagag cgcggaccgc gcgcgcgcct gatctgcata cgtgggtccgc ctgtgctaat 300
ccatctgcgg catatgctcg aagaaagttt ttgggaacg 339

<210> 30269
 <211> 611
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H12

 <400> 30269

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cccacgcgtc cgcccacgcg tccgacacag acaagtgggt tccaaagcca agtgtgtgta   60
ctagcaacca gctagctcgg gcggcagcag gcagccatca tgtcggagga gaagcaccac  120
catttttca accaccacaa gaaggacgag gagcagcccc cgggcgagta cgggtactcc  180
gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa gaaggaggag  240
aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc  300
gcactctacg agaagcacga ggccaagaag gaccccgagc acgcgcacag gcacaagatc  360
acggaggagg tcgctgccgc ggccggccgtc ggccggcgcg gctacgtatt ccacgagcac  420
cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa gaagcaccac  480
cacctcttcg gctgaccgta gtaccggccg gcgcgcgacc gagctagcta gctccggcgc  540
acacaaccac acacctgttt aattctgtac tgcattgcgt tgtaatttga tggttcacia  600
taatgagtcc c                                                                611
  
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<210> 30270
 <211> 229
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H2

 <400> 30270

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agagaattga caaacctagt aattttctgc atgttcttgt tcttagctat tgactagggc   60
tagggacagt caaagaactt ggtaacatta tgtgttaatc cagatctaac taaatccact  120
cagaacctgg tgaacattaa acatgggaat tctatacatc agcaaacaag gttaactagt  180
aagtgatagc atgcaaccaa acagttatgc tcccaataat acaaatgtt                    229
  
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<210> 30271
 <211> 352

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-H3
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 ctttggctct tcaattgctt tggcatcaag tggcattgtg ccagcattta cggaggatgt 120
 cgctcgatct gtaaacgttg tacatgtcgt cgataccaca ggagtacatg gcgggcatat 180
 agaaccagta tcctatatct ctttgttttc caatacacct ggaaagctga cgaatgaatt 240
 agtggacctt ggaagcgaag aattttcttg cggaaggaac atgactactg acttggtaac 300
 atttacagtg aagtatggct gttggagtta caaagagagc agtaccggat tg 352

<210> 30272
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-H4
 <400> 30272
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 aaaaaggaaa aaaataaaaa aaaaaataaa aaaaaaaaaa aaaaaaata aaaaaaaga 120
 taaaaatata tctaaaaaac attatacata taataaatac cacaagtaat acataaataa 180
 catataaaac taagtataat atatctatct gttttccaat a 221

<210> 30273
 <211> 201
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-H5
 <400> 30273
 cccactcgtc cgcggaacgcg tgggaaatta caaaaaaaaa aaaaaaaaaa aaaaaaagg 60
 aaaaaataaa catataagta aaaaaataaa aataaaaaaa ataaaaataa aatttggccg 120
 tcctttttta cggtttccaat tttccttccc ttttcttcta tttttttttt tttttttttg 180
 tcccccttaa tttaaatttt t 201

<210> 30274
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-H6

<400> 30274

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 aagaagcggc agcgagcgag gatgccgtgc ctgaacgtgt cgaccaacgt gaacctggag 120
 ggggtggaca cctnccgcat cctcgccgaa gcctccaagt ccgtcgccaa catcatcggc 180
 aagcccagag cctacgtgat ggttggttctc aagggttcgg tgcctatggc atttgagggt 240
 acccaggagc cagcagctta cggtgagctg gtttccatcg gaggcctgaa ccctgatgtg 300
 aacaagaagc ttagtgctgg catcgcttct atcctggagt caaagctgtc tgttccca 358

<210> 30275
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H7

<400> 30275

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 tggatcaact tgagggtacc gttccaggaa gtgtacgggg acgtccgctg caacctgaag 120
 gaggcagtcc agctggccgg gctcacatgg gaggggcgcg ctactgcgg gctcgacgac 180
 gcccgcaaca ccgctcgctt tctggcactt ctgatgcacc ggggctataa gttctgcac 240
 accaactcac tgggtgtggca acctgccgac gctccgcagt caaccgtcgg cacctgtcac 300
 ttcttcccgg acc 313

<210> 30276
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-H8

<400> 30276

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aggggtaccgt tccaggaagt gtacgggtgac gtccgctgca acctgtagga ggcagtccat 120

ctggccgggc tcacatggga gggacgcgt cactgcggtc tcgacgactc ccgtaacacc 180

attcgtctac tggcacttct gatgcaccgg ttcttcaatt tttctatcac caactcactg 240

gtg 243

<210> 30277

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H9

<400> 30277

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aagccatttg atgttcgttt tgtgcgacgg tttgcggctt gatcgcgatt ggctcgtag 120

cctttttgac cgaacgagag aagcagcagc tctgcaaagc tacctccagg ttcattcg 178

<210> 30278

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A1

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gcgagctgca gtgaagagg ctgcaccgct tcctaacttt caagatggac gacaagttca 180

aggagatcgt tgtggaccaa gtcggggatc gcgctaccag ctacgaggac ttcacaaaca 240

gccttcccgga gaatgactgc cgatacgca tctatgattt cgactttgtc actgcagaag 300

atgtccagaa gagcatgac ttctata 327

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A10

<400> 30279

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aggaagagcg tgatgcaatg gttcaggcaa agaggagca ccgggagaag tctgaggcga 180

agcggaaaga actgaggag aagatgttca agaagacaag atctggccaa cctgtgatga 240

gataccggat cgagcatctc ttggagactg cactgagcaa gtaacacgat accaacctcg 300

ccttttgaga ccaaagtgtg ctaccaaatt ttgtagctcc gtgcaaccat ttgtttactg 360

taaccgtctt ttgtcgcttc atcgttgtac 390

<210> 30280

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A12

<400> 30280

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taccatttat catcacacaa tctggattag cttttcttcc attacgatta tactcatttt 120

catgacttca tttcttgcac cttccaatcc aatttcaaga tgctataact ctcttaacat 180

catttctcat attctataat catttatctc gagtcaacaa ttaagaactg caatagtttt 240

ta 242

<210> 30281

<211> 451

<212> DNA

<213> Zea mays

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<400> 30281

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agctcccgat ctcgatggcg aaccctcgcg tcttcttoga catgaccgtc ggcgggcgccc 120

cgggcgggcgg gatcgtgatg gagctgtacg ccaacgaggt gcccaagacc gcggagaact 180
tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc cggaagccg ctccactaca 240
agggtccac cttccaccgc gtcacccccg agttcatgtg ccagggcggc gacttcaccc 300
gcggcaacgg caccggcggc gagtccatct acggcgagaa gttccccgac gagaagtctg 360
tgcgcaagca caccgcccc ggtgtgtctt ccatggccaa cgccggggcc aacaccaacg 420
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<210> 30282

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A4

<400> 30282

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aatagcttgt acattaaatt gtaaaactta acacatacaa caaagcaact taaaaactca 180
attcgttttg aactgacac cgtccgttcc aacaatgac acttaactct ccatgttcaa 240
aaacaacca ttgtcaacaa ctcttccaa agcttcaatt tctgtcttg cttccaactc 300
attcttgatt ggctttttga attataaatt gaccatgtaa tttgagtttt caaaaacata 360
tggtttgtct cttttaaac ttattttttt cttgacttct ttcttcttaa 410

<210> 30283

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G6

<400> 30283

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aggcataata ttggatcttg agtgcaacaa agtgctacaa gaagatcagg aaggtcctct 120
gcaagggtcca agacaagggt agcatcaaga ccatctccta ctactagaag aacaacacgg 180
tgacagtgtc cggggccctt gactcctagg aggtcgcta caggctcacc ttctattcta 240

tcaaggtcat caccgacata cacatctttt ttgtgcttat gcttca

286

<210> 30284

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F2

<400> 30284

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tgatggaaat gcatatcatg gtgaatctgc acccaacaag aaagatgcag agcagaatgc 120

agctcgtggt gtgatcaagt cgatttttagc taagcatgac acttgatggt tgagaattgt 180

tagatcgaag aaacaactta taactgctgt cagatcttct ggaaacaccc cagctacttt 240

tactcctata cagtttacac ggctgtttc atatgcagca tatggcagac cagatgatac 300

aacacctggt ttgccaaatg aatcttcctc attagctggt caacgaggca tcaatgttgt 360

acctgcagtt gggaca 376

<210> 30285

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F4

<400> 30285

cggacgcgtg ggtcccaatc ttcaggaatt gggtaaaagg gcttttgtta cctatcttga 60

ggcagtatac ctccagaaag acaaaaaagt gttcaacctg agcaggttct ctgcagagca 120

gtttgctgca tatgctgctt cgcttggtct gcctgttacc cccaagatcc gcttcataag 180

ccacaagaag aatgtgtcga agaaggatat ggaggacatt gatatgaaac agatgaaatc 240

cagtttgga catgaagtta ccatcactcc aaagatcaac attgatttaa ctttgtgtga 300

tggagatgat gatatccttt atcccaagaa gccactgca gatgctaata tggatgacag 360

acttgatgat 370

<210> 30286

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F5

<400> 30286

gtttctatga ggggaaatct tctgatttct aactcaggac attatgctcc tggttttggg 60

attggagctc tcgaagaact tgatgttgaa gatgaagata tttatgcac aggttttggc 120

tatgaacaaa ctgaagttga tattgagcct tcaaaaactg ccaatgacag taattataaa 180

cttgatgaca gaaaaagagg tttctatctg agctttaaga ttgcctcaa ttctgaatac 240

aaacttgaac ggtaatgctt cctctgattc atacttttct tcactctgat ggaatagtgt 300

gaactacctt cgaaagtctg ggctttgggt tttcattcta ctttct 346

<210> 30287

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-F6

<400> 30287

aacgaggcca ccgacgtctg gagcgcgggg gtcatactct acatccttct gagcggcgtg 60

ccgccgttta ggggcaagac caagtccaag atcttcgact gcacacgctc catggagctg 120

cagttccctt ctgacccatg ggacaggggt tctgattccg ccaaggagct cgtcaccggg 180

atgctgcggc gcgaccctag gctgcagctc acggccaagc aggtttttaga gtatccgtgg 240

atgcaggaac acgcggaccc acaagactcg agcggtcagt gccactagac cggcctncaa 300

cgggaggg 308

<210> 30288

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F7

<400> 30288

cccacgcgtc cgcccacgag tccgagcgga ttacgttgag ctggtataat cagttgatgg 60

gcttaagttt tctgcgctag cccctgcagc cgaagtgttt ctgatggttc aaatagcgtt 120

gcagtgcctt gttggtgtta gtccttggtt atcttacatt tgtgagttaa gttggacgtg 180
ccaaacatat ttaaataatat cctcttgaac gggggaaaga tcatatcaag tcc 233

<210> 30289
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F8

<400> 30289

tcgcccacgc gtaccgccc cgcgtccgc ccacgcgtcc gccacgcgt ccgccgacgc 60
gtgcgcccac gcgtccgcc acgcgtccg 89

<210> 30290
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G1

<400> 30290

gcagcaaagg gatccaagaa ttgatcgtc tcattggaat gatgatgaca gaagtaagag 60
acaattgctc ctttggataa ttagaccttg ggatcccga ctgcattaca tggcatgtgg 120
ttgcttgggg acaagcaaca tttcgacggg gcggtaatgt aacatccga ttctgtgata 180
tgtgtggtct gcctgaactc tgaagacggt gtgcaagtat aggtaaatga agtctgaact 240
tctgaagatt ttgatgagca agctgattgg gccatattag ttgtgggccg gaataccggt 300
gtgtattcat ataagtacta agaccatgta ctcgaacagc agaaaggaaa tattctagac 360
tttggttacc aaacaaagca tcttaagttg ctttttgggg 400

<210> 30291
<211> 626
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G10

<400> 30291

cccacgcgtc cgcggacgcg tgggcgccat cgaccatctg gtgcgcggga agacgcggaa 60

ggaagcgctcg aggatgttct tcgagacctt ggtgctgacg acgaaggact acatcagcgt 120
 ggaccaaccg aacccttcg acttcgtgag cgtgaagcca ggcccgaagc tgctcatgtc 180
 agaattctag atcaacaaag tcagcgtacc cctggcgcgga tacattcctt gttaccattg 240
 tatccatcat cgcaccgacc agcaacaaca ccgcagatat tcccccaac cacagtacca 300
 caccctccct ccttcctaaa tccatttttg tgtatgttgt tgcagttccc ctcccctccc 360
 ctgtagcatg tgctgcgctg atctgttggt gttgccaggg cgtctgtccg agtaggatgg 420
 tggttgtgtt gtaccgtcgg ctatccaaca gtatatagta gtagtacgat tttagcgaca 480
 ctctgaagc ccgcgtgta atgtgctagg gttcgcgctc ccctaagtta ctgtcgcttt 540
 agactggcta aagcccgtag gaattgtata cgacaaggac agggacagcc cgagatgatg 600
 aatgatgtat tgatgtgcct gtttga 626

<210> 30292

<211> 547

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G11

<400> 30292

ctcgagcccg agcaaacaag ggcggacgcg gagccggcgg cgagcgagg atggcggaga 60
 agaagcgagg cgccggcact cgcaaggatg aggtggtgac acgcgagtac actatcaacc 120
 tccacaaaacg cctccacgga tgcaccttta agaagaaggc accaaatgcc atcaaggaga 180
 tcaggaagtt cgctcagaag gccatgggta ctactgatgt ccgattgac gtgaagctca 240
 acaagcacat ctggagcagt ggtatccgca gtgtgccgag gcgtgtccgt gttagaattg 300
 cccgcaaccg gaacgatgag gaagacgcca aggaggaact ctactctctg gtcacagttg 360
 ctgagatccc accggagggt ctcaaagggt tgggaactaa ggttggtgag gatgaggatt 420
 aagccctgta taccatgaga taaatttgag aatgttgctt gagcttattg ttatctactg 480
 ccaatgactc atgtaataga agcttcgaga cttgtctcct ttcaagtaat ccaaatatcc 540
 acatggt 547

<210> 30293

<211> 610

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G12

 <400> 30293

 caagttgtca agcaataaga cagtgaggag ggtccgtgtt cgtggaggta atgtgaaatg 60
 gagggctctt cgccttgata ctggtaacta ctcattggga agtgaagctg ttacccgcaa 120
 gaccggtatc ctgcacgtgg tctacaatgc atcaaacaat gagcttgtga ggacacaaac 180
 ccttgtgaag agtgccattg tgcaagttga tgctgccccca ttcaagcagt ggtacctcac 240
 tcactatgga gttgacattg gtaggaagaa gaaaaccctt gctgcaaaga aggataatgc 300
 tgagggacaa gaggttgagg cagcagctga ggaaacgaaa aagagcaacc atgtcacgag 360
 gaagcttgag aagcgcaagg agggacgtac ccttgacca cacattgagg agcaatttgg 420
 cagtggacgg ttgctggcat gcatttcttc ccgccctgga cagtgtggcc gagctgatgg 480
 gtacatcctt gagggtaaag agcttgagtt ctacatgaag aagctacaga ggaagaaggg 540
 caagagcgct gtaacttaga gcatttctcat ggattgtctt gcaccgaaat gtgtgtcctg 600
 atgagtacac 610

<210> 30294
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G2

 <400> 30294

 cccacgcgtc cggagaaaat tacgaggaca acaatggtta catgcctccg agttatgaga 60
 gaaggaacat cctctggagg aggattgaga atgaaactca aacagtttca caaaagcaca 120
 acatcattca ctgcccttga caagaactat ctactccat tttttaccag tcagacagat 180
 gatgataacg atgacgactt cagtcagcaa ccccaaaacc gaagactagc tttttatgat 240
 caatagcgga atttgatact ctacatatca agctaaatac acggagcaga actgacgtgc 300
 atgactatgt ctatgtgtga ttgggtcgaa caaaatatag caagagcata cttagttgag 360
 ttgcatatg 369

<210> 30295
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G3

 <400> 30295

 cccacgcgtc cgcgacgcg tggggaactt cctgggatta atacattttg ttatcctaga 60
 aaaaaagaga aaaaaagaaa aaaaaaaaaa aaaaaaacaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggccactta 180
 aaaggatcaa agtttattaa ccagtaatt aaaataaaaa attttataaa agggcaacaa 240
 aaattaaatc aataggcctt attttaaaaa attttaaatt tgaaaaaact tggatttacc 300

<210> 30296
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G4

 <400> 30296

 gccacaacc gtgcattcca gaggttcgct gtgaagacca acaggactct tgagagcgta 60
 tcgtcgaaag ctaaggaagt gagggaagag ttatcggaac aattgaagga agctcgtggc 120
 cagaaagatc acttcaagca gtgaagctgg ttccacatc gattcagcaa gatgatactg 180
 acaatcttgt tacgagttta gtccttgtct ggggtactatt tatgaatgac attttggatg 240
 ttattcaatg gaaattagtt tt 262

<210> 30297
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-G5

 <400> 30297

 gagagagcta gctttggcca ggcgtccaca gcagccagca caagatgtcg acggtggtca 60
 tgggggtgga tcttgagtgc gacaagtgc acaagaagat caggaaggtc ctctgcaagg 120
 tccaagacaa ggtgagcatc aggaccatct cctacgacga gaagaacaac acggtgacgg 180

tgtccggggcc cttcgacgcc gaggagggtcg ccgacaggct caccgtctac gccggcaagg 240
tcatcaccca catacacgtc gtcggggggct teggcttcgg cttggg 286

<210> 30298
<211> 697
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-F12

<400> 30298

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgag cattcaaagc gttctagggt 60
agaagatatt gaccaatata gtggagaaga atattctgag tgatgaactg taaatcataa 120
ttatcttgca ccaacgaatt ttatcagtac atgtgaagcc ttaaaagggt tcaagcaata 180
ggcacaagtg gtttcatggt gcatggtcat gcagtgaag aaaatgtctg acaacaagag 240
gacattgggg cttggccaat ttgttgatct ctgtagtgat aatagaaagc gtcacattgt 300
tctaaagaag ttgtcttcaa agtcttgat gatgcgtata ttgcagttgc tccacatgtt 360
ccaggatagt gaaattttat tcatggttgc ctgataaagt gtggaattat ataaattttc 420
agcataaatt gttttattat taacgttcgt ttttgccata aataatgcat aagtatatga 480
gatgataaaa gggtaatcat gaagcattct gtgggtccgg ggcccttaag ttgcaattct 540
attccagcac anagtgacaa tgatatgatg acttttggtc tgggtattatt aattctggac 600
agtaattcag tagctgtggt aacgggcaaa aaatttttcc ccccccttt tttttccac 660
aaaaaaaaagg gggggggggg gggggttttt tttttt 697

<210> 30299
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D8

<400> 30299

gaccgttttt cgttcgaggg agtgccaagc actgaaacat ggatgaagcg gacgacgacc 60
catgggtatc ctatccaggg gcaatcgaat atagattttc ttgtggcgtg gccaaagggcg 120

gtgccgagcc tgtaccagta cgacgactca ggccagaaca cacggcgtat ggtatggtac 180
acagcaaggc cgtgttggtg ctgtaagttt tgtaatttct gtttccttct tctcggttc 240
gcagcatgca gttgctgtat atgatggaag aacactctgt tactgggcat gttgcgc 297

<210> 30300

<211> 629

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D9

<400> 30300

gcctcaagga aatggccttg cttttacggt atcttccctt acaataacat tgggtggtca 60
cagctaattt ggattgcacc gagtgggtgt agagatcgcc caaatccttc aacaggagag 120
tggtaccggg gcaggcgcct tttgattcat ccacagtgga caatatgagg aggcttctgg 180
agcatgctgg tggttcctggg cacatatatc cactattatt actgtgctac gaggttatgc 240
ctccaccaca acaggtcgag aaagagattg gtgaacagag ggtgatatcc ttccatggag 300
taggcttggtc agcaactgaa gaaacaaagt atggggatat tacttgtcat accaagaatg 360
ctgatgaggg aaggagagcta ttcacaaata ctttgtacaa ctgagttggt aatcagtaca 420
atgtcctcaa atctgctatc tttagagatc gtggagcagc tgtatcaaac aatgccatct 480
cactgtcaca accatggcga tgaatgttag ctttcccagt ccagattcga tactgaagtt 540
accttttcag aagaacaggt gaactgcaat tgtgcaaatt ttctgggaaa aactcttgaa 600
agttaatctt tctgatatca ctggacttt 629

<210> 30301

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-E1

<400> 30301

caaatactga tctcactgat ccagtatggc tatggcaaag gcaggcgcgc cgagggtctc 60
ggcggcccag ctggtggctc tcgggctagc gtcctctgc gctgtcgccg gcccgggccgc 120
cgcgcagaac tgcggctgcc agccaaacgt ctgctgcagc aagttcggct actgcggcac 180

gaccgacgag tactgtggcg acgggtgccg gtcgggcccc tgccgtctnc tcaagctctt 240
cgccccgctc gccgtccttg gcagctcgcg caagcgccgc gctgcctccg cggg 294

<210> 30302
<211> 663
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E10

<400> 30302

atgaccgttt ctttctcga ccatgtccct ctccagctag cttcctcccc tccatgtcgt 60
tgctttcttcg tcgtcgccgg ccgtcgtcac cactttttga cgcgctagcg cctagctgct 120
gctcgtttctt ccacctcgcc agtctccatc aacgcggctc cgtcgccctc acgcacgcgc 180
gcatagatat aaacataaac gccggctggc actggtagac attcttcact cccacgctag 240
ctacgcccac tcccccgcg ctatgcctat ggccgaccgc gtccacccca tgccatctcc 300
ctcctccccg ccgcttccac ctccgccagg gcgacggcga cctgacgccg accccgccac 360
ggagacgaag ccgctgcacc cgtccttctt ccacgccatc cgcggcctcg ccaacgccac 420
cgccaccgcc accggcgccg cagccccgt ctcccccgcg ctcgacgccg ccgtgcgcgc 480
cgacaacggg cgcaacggga aggtgggcgt ggagtaccgc gcgggcggcg ccgtcgcggt 540
gtcctacgcg gggcagcggc tggccgcggg cccgtggccc gcgttccgcc aggcgccgcg 600
gaacgtcacg gtggtcgcg gccgttcttt agnaaagggg ggaaaaattt tttccccccc 660
ccc 663

<210> 30303
<211> 590
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E11

<400> 30303

catgcactgt tttatgtggt cttcatgctg tcagcctgtg ctctgttctc aaagacatgg 60
attgaagttt cgggttcacg agcaaaggat gttgctaagc agctcaagga acaacaaatg 120

gtgatgccag gccatcgtga gtcgaacttg cagaaggaac ttaaccgata catccccact 180
gctgctgcat ttggtggtgt atgcattggc gcattgaccg tcctggctga tttcatgggt 240
gcgattgggt caggaactgg tatattgctc gctgtgacaa tcatatacca atacttcgaa 300
acctttgaga aggaaagggc gactgagctt ggtttctttg gtttttgatt agtagctgtg 360
gaaccttaac ttggctatag ctgaattttc ttgtaagtcc ctgtagtgct tagccagttg 420
taacttaaag agttctgttt aagttgcctt cttgcggcca caatcatgta gcagaatgtg 480
cgtgtgtttc aagttagcgt gggggtatgt gcatctgtcc aaagagtctg caatttggca 540
accggatatt ttgntatcaa tttcagttac ttcgaactga gcatgttctc 590

<210> 30304
<211> 706
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-E12
<400> 30304

cccacgcgtc cggagagcgc gaagttaagc caccatgtgg acgagggcct tagcgacggt 60
gctgctgttc gtggcaggcg ccgcgctgct cggcgctcggc ggccgacagc cgcagcaggg 120
cgtgtggagc atcatcactc gtcccatgtt ccagagcatg ctgagccacc gcggcgacag 180
cgggtgccag ggcgcttctt acacctacga cgcgttcacg gaggccgcca gcaagttccc 240
cggcttcggc accaccggcg acgagcagac gcgcaggcgg gagctcgccg cttctctcgg 300
ccagacgtcc cacgaaacca ccggtggatg ggcgactgct cctggtggac cgtttgcctg 360
gggatactgc cgggtgaagg aacagaacct gacggacca cctactatg gacgaggacc 420
catacagcta actcatgagt acaactacag gctcgccggg caagcgctga acctgaacct 480
ggtgggcaac ccggacctgg tggcgagcga ccccggtgta gccttcaaga cggccatctg 540
gttctggatg acgccgcagt cgcccaagcc gtcgtgccac gccgtgatga ccggcgccctg 600
gacgccgtcc gncaccgaac cgggccgtcc cgggggggtn ngagaggggg gggggccccc 660
cctttttttt tttccccccc ccccccccc cccgccgggg gggggg 706

<210> 30305

<211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E3

 <400> 30305

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 aggaaagaaa ccccatgagg agcaatcgag cagcatcccc atattgacgg agccaaacag 120
 atgatgcctc aggacaatga tttggtacat gcgcgccctt accatcgag cggtttccttt 180
 cttcttgctt tgtagtggg ctacctatac tgctttgttc ttcctttcta attgccttcc 240
 tatgatcttc cctagtctta gatcgaga 268

<210> 30306
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E4

 <400> 30306

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 gagggcgcaa gtgctacgag aacccaagc acaaggtcac cgctgtcccc gccgacgaag 120
 aagagatctg cgggtgccact ttcaagggtg tggaagggtc tactgtcctg acggcgctgc 180
 actgatctat catcatcagg cggaggcgat gcgatgatga tgcagaactt tgtacatgcg 240
 ttggtggatg gtggtgtaac atagtggctg ccaacaagtc atgctcatgc aaaccgatga 300
 atctatctct gtatcatcga tctcgggtgc ttgctagtcc agacttcaga catggctata 360
 tatatatagc tgggg 375

<210> 30307
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E5

 <400> 30307

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gtcggtagct cactcgatcg cagagggccac gctgctcaag ttccctcaga tctccgcagt 120
 ccgagtgaag gttggcaagc ctcacgtcgc ggtgcgaggc gttctggact acctgggcgt 180
 ggagataacg aggcacagaa agaaagaatg agatgctgta cacatgtggt gatggggagc 240
 cagttcaatg ctgatggcac tgcggccata accataatcc acgcacgctt gttgcttggt 300
 ggcaactagg catatccctt tcacctttg 329

<210> 30308
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E6

<400> 30308

cccacgcgtc cgcccacgcg tccgcccact cgtccgggca cgccacgcaa gctctttggg 60
 tctgtatctc actcgatcgc agagggccacg ctgctcaagt tccctcagat ctccgcattc 120
 cgagtgaagg ttggcaagcc tcacgtcgcg gtgcgaggcg ttctggacta cctgggcgtg 180
 gagataacga ggcacagaat gaaagaatga gatgctgtac acatgttggt atttagagcc 240
 agttcaatgc tgatggcact tgtgtcataa ccataatcca cgcacgcttg t 291

<210> 30309
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E7

<400> 30309

cccacgcgtc cgcccacgcg tccggcagaa acgagagggc aggagcagcc gcagtcccgg 60
 cgatcccgcc gccggtcgcc ctcatacttc ctcgtcactg ccttcgtttc tctttccaac 120
 aatcaagatg agccgtggcg gtagcgcggg tgggtggtaa agttctctgg gttacctctt 180
 tggaagcggg gagcccccca aaccagcagt ggcaccagct gtaagtgtc cacctgtctg 240
 tgcaagtgtc ccacctgtg agaaaccacc tgctgcaaag cctgatggca ccagtcagat 300
 tgctgtctggg gttaccagcc aaaccaatta ctaccacaag gccaccgtc aaaac 355

<210> 30310

<211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-E8

 <400> 30310

 tggagtttta cattaaaaa aacaaaatta aaaaaaaaaa aaaaaaaaaa ggaaaaa 57

<210> 30311
 <211> 573
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-E9

 <400> 30311

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 cctgaggagg cagtgatggc ggccacgatt cagtacaacc ggagcaacc ggcggtgaag 120
 cggatcctgc aggaggtcaa ggagatgcag tccaaccct caccgactt catgtccctc 180
 cccctcgagg aggacatctt cgagtggcaa tttgctatcc ttggtccgag agacagcgag 240
 tttgagggtg gaatttatca tggcaggatc cagctacctt cggattatcc attcaagcca 300
 ccgtccttca tgctacttac gccaaagtga cgctttgaga ttcagaagaa gatttgcttg 360
 agcatatcca attaccacc tgagcactgg cagccttcat ggagtgtccg cacagctttg 420
 gtagccttga ttgccttcat gccgacgaac ccagggtggg cattgggctc actggattac 480
 aaaccagaag acagacgagc acttgctata aaatcacgtg aggtgccgnc gaaatttggc 540
 tccccacaac gtcagaaact aattgatgag atc 573

<210> 30312
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-F1

 <400> 30312

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 gcggaggcgg accggctcga gtcgcaggat gctcgcgcca aggccgccga ggccgcgcag 120

aggagacagc aggagtatga gaaatcggca gctggaaggg cagccaaagc acagatgaaa 180
gcaatgaagg aatcaaagac atcaaaccaa ggtggagagc cggtttcttaa gtggcagatg 240
ggatcatgag tttcgtttct gttgatttgc atccctccgc ttacttttga tggccgacag 300
aaaattgatt gcgactaatt tctgatagga tgcactgtga ttgtgtgatt atgccagtga 360
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<210> 30313

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-F10

<400> 30313

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gagatggccg acggggagga cgccgccgcg cgcgccggcc ggccgtcatc acagactacc 120
gcaagaagct gctcaactgc agggagctag agtcgcgcgt cggcaccgtg agagaaagcc 180
ttaaaaactgc aaagaaggat tttaaccaaga ctgaggacga cttaaagtct ctgcagagtg 240
tggggcaaat aattggagaa gtactccgac ctcttgataa tgaacgctnt atcgtgaaag 300
ccagcaatgg tccccgatac gtggtcc 327

<210> 30314

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D7

<400> 30314

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gctactctcc gcgcgcctac cgttccgcgc cgcacccgat tgggtggtcg gggcctagtc 120
gaggttgccg gggacagcgt cagtccatgg cggagcttgt gggaccgcgc gtctacagtt 180
gctgcacttg ccggaaccac gtttgccttc acgacgacat catctccaag gcctttcagg 240
ggaggaatgg ccgtgcgttt ctgttctctc atgccatgaa cgtagtgttg ggggcgaagg 300

aagatagaca cctcatgaca gggctacaca c

331

<210> 30315

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C3

<400> 30315

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ccccctgctcc caagcctccg acgcccgaagc cgaccccgcc gacgtacact ccaagcccca 120

agcctccac acacccgact cccaagccga cccacccgac gtacaccct tccccaaagc 180

cttcgacgcc caagccgccc gccaccaagc cgccaccta cactccgacg ccgtcgggtg 240

cttacaccct cagcccgtcg tcaccatact actagaaagc gatgcctacc ataccacact 300

gctgtcagtc tctggagcat ttaggtgggc tggatcaatg gaaagggtgt 350

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<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C4

<400> 30316

cccacgcgtc cggctactgt accggccccg gcctcttggt taatctgaaa tgctcattgg 60

atatccgctt acgaaacgca aacacgtgct ttggcacgtt cgtcgtcgaa aagagaagag 120

aatataccat ttgctctct tgaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaatataaaa aaaaagaaaa agaaaataaa aatattatatt 240

gttataaaaa ataagaaaaa aaaaaaaaaag gggggg 275

<210> 30317

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C5

<400> 30317

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ataaaaaggg atgaatttt 139

<210> 30318
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-C6
 <400> 30318

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 cttggcttga gctggtgagt cacaggagct tcatgccaaa actgctgatg tgcaattcac 120
 agaaaggttg gccatttttt cagegactgc ttgttgctct tctcaagttc atggaacccat 180
 atctgagaaa tgctgaactc ccagaggcga tggacctttt atacaaggga actatgcgag 240
 ttctgcttgt actactgcat gactttcctg aattttctttg tgattatcac ttcagtttct 300
 gcgatgtgat tccttcaagt tgcattcaaa tgcgcaatgt cattc 345

<210> 30319
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-C7
 <400> 30319

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 aaaaaaaaaa aaagaaaaaa ttgaaaattt taaaaataaa aataattaaa aaattaaaaa 120
 caatattatt atattatttt ttttaattaaa tttatttttt attttttaat ttttttattt 180
 tttttttttt ttttttttat ttttctatat ttttttattt tttttttttt taaatctttt 240
 tattttctat acttattttt tttttttttt tttccttttt tttccttttt ttttttttta 300
 tctttttttc tttttttttt ctccatcatt attttttttt ttttttttta ttttcatttt 360
 tattcctttt tttttttttt tatttttttta tctttttt 398

<210> 30320

<211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C8

 <400> 30320

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 tattttttatt atctgtggat aaacatttga tatgcaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaagggaga aaaaaaaaaa aaaaaaataa agaaataaaa caaaaataaa 180
 aaaatgataa ataacattta ttgccactaa tcccaattta taaaaggaga aggtaaatca 240
 ttgaaaaaaaa cactaggg 258

<210> 30321
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C9

 <400> 30321

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 gctgcacctg cagcggcgcg cggcctcctg cttcccgcac ccgccgtcgc cgtcgccttg 180
 cccgtcgcgc ccccgcgggg acgacgccac cacgacgccg ccgccgccgc cgccgcacct 240
 gcaggcgggtg cggctggtgg gctgcgacgg ggcggtgcgc gcgtacgctc cgccggtgac 300
 ggcgcgggag ctgatgcagg cgcacccgcg gcacctggtg tgccgcgccg acgcgctgct 360
 catcggcgag aagatccccg ccgtggcggt tgctcgatga gcttggtgcc ggtgacgcct 420
 actttcctgc tgctgttca cctgtttcgt tccg 454

<210> 30322
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-D1

 <400> 30322

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 tgcggagagg gagctactgc agtagagatg agctgatgta aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgac 180
 cgatttaa 188

<210> 30323
 <211> 601
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-D10
 <400> 30323

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 gagggaaggg agggagctgc agaggggtgca cgctgctgat actactacta ccaccaccaa 120
 ccgcaccgct tcgtcgccgt cgctctcgtc gtccctgtcg tcggctctca gcctcggcct 180
 ccaacaggcc gccaacgcca acgaccaccc gaggtgggtc ttgcaccgg acttgatccg 240
 gccgtccagg ccgctgcgcg gacacgcgtg ccacggcctc ggcgccaccg gtggtggtgt 300
 cgctgtccag acgacgtcgc cgccgccact accgccgagc tcctcgtggg gaggagcgca 360
 gaattcgggc tataggactg atatagatgt cgatacctcg ctccatctgt aatctcttct 420
 ataataagca cgtatggccg tgctgntctt tcgttgcttt tttttttggt atggcttgtc 480
 agtttcccg ccttatttgc agctagctag cactacgtac ttcttctgtc gtctcgcggc 540
 ctgccttgta actgcttggg tacttttact atatatgagg ctttctatag atcgatgatt 600
 t 601

<210> 30324
 <211> 601
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-D11
 <400> 30324

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 acggtgacgt ttcacaggaa tgtccccatt cttgatggga agatttggtt gcagttttct 120

aggccccaag ctttacatgg actaagcctc catttgtttt tgcacctcga gtttttgatc 180
 cagcagtttag catgacatcc atccgttggg gagaaagagg cttgccgggt tttttttttg 240
 gcatattata ttagttgatg gggcaccccc tttagtttta ctcagaaatt gatgattgac 300
 gcgtcggcct gggaaaagaa tgaacccgtg cagttctgaa aaagcgttta ctccatccag 360
 ccagctaact taatgtgcag ctgaaaagtc ggcatgtaga agaatgtgga ggataacgtc 420
 ctttcttttg tttctcgtcg ttaacttgag actccgaggg cgaatgcagc cattgaatcg 480
 tcgtaaagtgt tacatcagtt gttgttttgt taataggttt ttttatgtct tcgctagcgc 540
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 g 601

<210> 30325
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-D12
 <400> 30325

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 tggggacgcc gccaggacg ccgtgctgca cgctgatcca ggggctggcg gacctggagg 120
 cggcgggtgtg cctctgcacc gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc 180
 ccatcaacct cagcctcctc gtcaactact gcggcaggcg cgtcccctcg ggcttccagt 240
 gcttctgact atcacacgcc catcgatcga tcgatctgga ggctaaataa tttctccaag 300
 ctgctagtat acgtacgtac gttgatatat atgatgtagt attatatata tgtccatgca 360
 tctcgtcgtc tatcgcatgt tggtgtgtgt gttgtgtgtt ttcgatgatc ctgtctctgt 420
 tataaatatc attattatta c 441

<210> 30326
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-D2
 <400> 30326

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 ctgagatgat tggaagcatt gttgggggtct acaacggcaa gaccttcaac cagggttgaga 120
 tcaagcctga gatgatcggc cactaccttg ctgagttctc catctcctac aagccgggtca 180
 agcacggcag gcccggtatc ggtgccaccc actcctcgcg gtttattcct ctgaaatgag 240
 ctgttactcg gctctttagt atcccaagag tccggttgca atgttcattc agatTTTTCT 300
 acttcttttag tatcccaaga catttgtggt gttccattcc agcttaagaa ttcaaagctt 360
 agcattgcac aattatgctg gt 382

<210> 30327
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-D3

 <400> 30327

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 atctntgatc tntatatatc ttcttcttct tttctttaaa agagttaggt ggatatgcat 120
 cgtcaatgca tgtacatatc acatatgggc tagtttagtag ttaattagga gtacaattga 180
 taaactacca catgtgacag tgaacagtat ttttcatctc gtgcagcaca caggaatctt 240
 attcttgacg atctccagtg attccaaaga ctaaaacatg ttcaactgtc ttgtgattga 300
 ttccttgacg gcacatcaat cgacctgggg attgcgtaca ttcttatgct g 351

<210> 30328
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-D4

 <400> 30328

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 atacatgaat cggtagcact ggccatgtat attctatcca gtagcaatct aatatagatt 120
 ttcttgatc ttcataaca tcggcacctc acctgtacac atacgacaac tcatgccata 180

atacacgtac tattgttttg ctcacaccta ggccatttt 219

<210> 30329
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D5

<400> 30329

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<210> 30330
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D6

<400> 30330

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actgaatcat ctaatgctga ggtgaacaca tcaagtgtg tggctgctgg agagtctgag 120
tcccatgaaa ttggatcgcc aaagagtcta aaagatgcta tcaaaccaaa acataaaaaga 180
aagaagaaga aaagtgcag gagttagttt agttgcaagc ctgtaatttt gtatgccccca 240
gataaatcaa ggacagtcta caacacctca aactcctgat tgatgaagtt tcatccgggg 300
tgccatacat ggggtttttt ggggttttca 329

<210> 30331
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C11

<400> 30331

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ccgcagggac cactcgctca cgcccagtg ctagcgagcg cgctgtctg ctgtgctgtg 120
tcgtcgtcct tgttgctttg tgctttgttt cgttggtgat gaaaaggctg ctaggcgtgg 180
ctgccctact acgcccgcgc ccgcccgcgc tctctctgct tgcggtgact gaggcgcccg 240

cgcgagccgg tgggtgaggc gttggtcgtt ggcttatcgc cagcaaactc gtgtcgtcgc 300
 tcgtctacgt acgtgcccac tgcattttctt ccggttggtg ctttccattt ggtctcgcac 360
 cgcatgcac acacgaggcg ccccaaaggg ggcaagcgct tccatgattc atacggatac 420
 actatgtata ccatatatac acatattata tatatatatta atacatgttt cctgt 475

<210> 30332

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A9

<400> 30332

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 gaggccgcaa aggcgaaatt gcgagcccag aattcaccca gtctggattc tgattcagcg 120
 gcagaaaaga atgggtttcac ccgacgccac tctcttctt ctagtataaa gagtagagca 180
 cttaaagctg aatggaagcg ctgaagaggc aacctatcgt ccacttgaat tgaattgtgc 240
 actgctctga aacttcgctg gatgaactcg accggtcttg tcccatgttc ttgctgtatt 300
 gaacaacccc ttgtgaagtt gcgattctgg ttcagtttgt cgtagggttca tgtgcaacca 360
 ctagtgcctt gtgtcgtata ttgcatgggt cttgtcgaag gaacaatgcc tgcgaaagct 420
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<210> 30333

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B1

<400> 30333

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 aggaagggga gaagagcgtt gtcaagtac acatgttgga cctcagatca gatgaaacgg 120
 tcttttctag tctctcgtgt tcactacgaa tgtgcaatag tgcaacatgt cgcgaggtga 180
 tgaattccac aaagacgagg tgacggagca gggcattcaa aagcccgcag 230

<210> 30334

<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B10

<400> 30334

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caagtactgc gggatctgct ggcggcactg caactgcgtg ccgtccggga ccgcgggcaa 120
caaggacgag tgcccatgct accgcgacat gaccaccgga cacggcaacc gcaccaggcc 180
caagtgcccc tgatgatatt cattccttcg ctccctccgg ggagccagct gtcttgcatt 240
cgtatatgta atgtatgtat aggctgtgca atgcatgcat acatgataca tgccgtgact 300
ctggatcggc ggatgcctat gcatgctttt cactagctat tattactact actactactc 360
ttcctgtctt cctactgtgt gcaccagagt gagagggacg acatgcatgg cgatgacatg 420
tcgtgttatg tgcact 436

<210> 30335
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B11

<400> 30335

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ccgccgtcgt cgatgaagcc ttcttgacaa agtatgacat caagctgaac aatgctattc 180
tcgtgagga gaagcacttg cctatgtatg acgagttggc tagcaagagc aatgttgaat 240
atattgccgg aggagccacc cagaactcta tcagggttgc ccaatggatg cttcaaactc 300
ctggtgcaac aagttacatg ggatgcattg gaaaggacaa gtttggtgag gaaatgaaga 360
aaaacgtca agctgcagga gttactgctc attactacga ggatgagact gctcctactg 420
gcacatgtgc tgtatgtgtt gttggtggtg aaaggtcatt gattgcaaatt ctgtcagcgg 480
caaactgtta caaatctgag catctaaaga gaccagagaa ctgggcacta gttgaaaagg 540
caaaatacat ctacattgct ggatttttcc ttacagtgtc gcctgattct atccagctag 600

tcgctgagca tgct

614

<210> 30336

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B12

<400> 30336

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gagggcgctca agtacggcgc gggcatcggc cccggtgtct acgacatcca ctccccagg 120

atcccgctcgg ctgaggagat cgccgaccgc atcgacaaga tgctggcggg gctggacacc 180

aacatcctct ggggtgaacc cgactgcggc ctcaagacc gcaagtacac ggaggtaag 240

cccgccctga ccaacatggc ctccgcgcgt aagctcatcc gcaccagct cgccagcgcc 300

aagtgagcac cttttttttg cttttttcgt ttccgaggag ggcgtcgtcg atgccaattt 360

gtttccaata aacagggctg tgcccgcggt tctgttgtac tccgtctgtg gttagggttag 420

tagttttctt gatctcgccc ccacgcggta cctgttttac tactctctgt ttggtggttt 480

ctgaggcaag ttgcccgtgt acttgatcgc taaaaaccga gtgggacatc tgcacgtttt 540

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gc 602

<210> 30337

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B2

<400> 30337

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gttcaacgct ccttaggtgt tctatgaagt gcttgaactg aagttcgttg tcgttctgtt 120

caccgcgggt cgtaattga tcacgtgatg cggacgacaa gagccgagtt gatcccaaaa 180

tgatgctggt gaacgaacct gaagcttgga tgatctggtc aagtaccagg atgagagatg 240

ctccccaaag ggacatcatc taacaacact gacttagtgt tatctcagac aagccccggt 300

gcatttgcca ccttcttctg ttttaaaaac ttttattact tacct 345

<210> 30338
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B3

<400> 30338

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cctaggcgctc gcctaggcga cgcctaggcg tccgggcggg ggtctaacgc ctaggcgcct 120
tgcccgccta cctcgcctag gcgtccaggc ggtgggtccaa cgccttggac cgccttaccg 180
ctttaaaaac catgataatg gtaaacgtaa gttttgtgct atgagcctat agcttctccc 240
ctatcgtggg cagtcgtgctc aggatacttg gtttctgtga aacattcagg ctgtcattat 300
gtctggtctg tagaatgtgc tagtgtgaat gttctgctat ttcaata 347

<210> 30339
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B4

<400> 30339

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gccgtgagaa agatggagct cgtggctgaa gaaaagatgc gactttacaa gaaggctcgc 180
ctcgcctggg aggctgcga ccgagagctg gaggagaagg ttagggaagc ccaggagctg 240
aaggcagagc gtcagcgcaa gaagcagcaa gtggaggagc tggagagcat cgtgcg 296

<210> 30340
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B5

<400> 30340

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 tcgtcggcgg gcttgccctgg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct 180
 acggcgagat cctcgactcc aaggtcatca ccgaccggga gacggggagg tgttgcggt 240
 tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctttcgag aacatgaac 299

<210> 30341

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-B6

<400> 30341

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 gccttcgtga aagctaaaga cggaggcttg gaagtcattc agacctaagt cttttgtaat 120
 ggacatgagc ctacgcctgg aaattactat ttcgaggaga ggtacgattt agtcaggttc 180
 ataaagacgg tccagaaggc cggcctgttt gtacatctct gcatcgggtcc tacatttggtg 240
 gcgagtggaa cttcgggtat ggggtatttc tccatttcct gaaatcacct ncgttaaaaa 300
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<210> 30342

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B7

<400> 30342

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 caggttccat cagtaccagg tgggtggggcg cgcgctgccg acgcccggcg acgagcacc 120
 caagatctac cgcataaagc tctgggccac caacgaagtc cgcgccaaga gcaagttctg 180
 gtacttcttg aggaagttga agaagggtta gaagagcaac ggtcaggtcc tggccatcaa 240
 cgagatcttc gagcgtaacc cgacgacgat caagaactat ggcattctggc tgcgctacca 300
 gagcaaaacc ggctaccaca acatgtacaa agagggtccg gacacaaccc 350

<210> 30343
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B8

<400> 30343

gttgcaagaa ggggaattcc gctgcgagat ccgtgaacgg ttcagagatg gcacagacgg 60
tgttcacccc ctctttggaa gcgatgaagc atgtcaaggc agagaacgga gtcattctca 120
ccaagccctt ccttgatgtc tgcaagcaaa tattgcctgt cctcgataaa tttggagctg 180
ctatggcaat tgtaaagagt gatatcggcg gcaatatcac aagactggaa aacaagtata 240
cttcagaacc atcaaagtat gaacacttgt acagcatgat tcaagaagaa gttcaaaaca 300
agaccgcaaa aagttcctta agctgcacaa atgggc 336

<210> 30344
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B9

<400> 30344

cccacgcgtc cgacggagtc gaaccggaca ggatggccgc cgctcgcgca cgggtgctgc 60
gcgagctgcc ggcaagggtc tggacgaaat gcctccgccg cgcttccctt tccccctcca 120
cctcgccccg cgctcctcgc ctctccagcc tcagccgtgc ttccacgtct ccctttccgc 180
tcgcctctcg ctcccggcgc cttctacact cgctgccctc ggcggcggtg cgcgtgcgcg 240
tgcgcgcgca gctgcagacg cgcttcttgg cgagcgaagc cgcgcggggc ggtgtcggcg 300
ggcgcgggcc agcagcggac agcgaggagg aggcgcagga gtggcgggtg gagtgggagg 360
acagcgagga cgacggctac gagcccgaga tcggcgacgg cggtgacggc ggccgggtcg 420
cgctgcgggg cgtcggttgg ggcgagcgtg ccctcgtggc ggccgaggag gttctcgccg 480
gccattttgg ggatgacatc gcaatgttcg cct 513

<210> 30345
<211> 392

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C1

 <400> 30345

 gggttaagggg acttctgctg tgctcatgct gcttagggac catgtgacaa atggaagtgc 60
 tgttgctgcc atgaattctg cgctcggttg agagtgggca acctctctgt cattgctatt 120
 tgatcccaaa tgtccaggat tggagtcact tgtggagaag gtgaaggaga ttgttgagag 180
 caatgaagtg aggagattgc ctaaaattcc aaaggggtaca cgcgactttg gtaaagagca 240
 aatggcgata agggagcgag cattttcaat tataactagt gtattcaaga tgcattggtgc 300
 tactgcgctt gatacacccg tatttgagct gagagaaacc cttatgggaa aatatggtga 360
 agactcaaag ttgatatatg acttaactga tc 392

<210> 30346
 <211> 503
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C10

 <400> 30346

 cggacgcgtg ggcgagcatg ggaaagaaca tgcgagtatg catgcaggct ggcgagccag 60
 gtggcctcat ttgaaccata ctgccagatg cacatccacc agcagcagcg ccaatgccga 120
 tattgacgga cgctgacgtc gcagaaccag ccctctctgc gagaagcaac agcaccacag 180
 ctgcatggac ttggtatgcc gcactcagaa tgcgaacca tgtcttgagc atatccacat 240
 tgctgatgct atgggcttgc ctctcatct gaagatagtc ctgggtcaaca tcatacgcg 300
 cgtggcgcat tagatctgac gattttcaca ttgagctggt aatagcaatt actttccagc 360
 agctatatgt aacgtataat gacattgatc tgtgcggtgt tatggaggat ggatggatgt 420
 tgagcttgat acctcaaagg tggcacttga tcgtgctgcc agatgtctct aggtacatat 480
 gggtacatac gtgtggatat aca 503

<210> 30347
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-A7

<400> 30347

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agtcttcctc taaagctcgg agcgagtctc agaagcgatg gcgtcaaaga ggctgctgct 120
ggcggcgctg tgcgtggtgg cggcggcgct gctcgccgtg cggtcggagt cccacggcct 180
ggaggacttc gcaagcagcg acgcgacgcc ggagatgcag accttcttca agcccagggc 240
cgcggcgctc ccggaggccc tggacgcgtc ctccatgccc gccgncacca tggccgcgaa 300
gccggaggcc acgtcgatcc cgaccaccaa caccggcacc acg 343

<210> 30348
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H10

<400> 30348

gaatttcattg ttggtagttt cttgctcgtg ccaatagttt tatataaggg tttttgttgc 60
tgtgttttct gaaacgcata agcgtgtcag tagcatgttt tcataaccgg attgtagtgc 120
ttcattatct atagttttct gtacgtgtaa aatagaccag cgtaacagcg tagtttgctt 180
cattctccga agtattgtat ggctgtacac ccaggcatct gggcatcatg aacccaactg 240
attggctaaa tgaaataaat ctctccatc caacagcaaa ttacaaaact 290

<210> 30349
<211> 511
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-051-Q1-K1-H11

<400> 30349

ctcaccgcg cagtgtcgt gccgtgccc cctcctcct gctgctcgc gccgccgcc 60
gggccgcagc ggggctcgtg tccgccgct cgccggcagc cagcgacttc gtccgcaagt 120
cgtgccgcac gacgcagtac ccgtcgggtg gcgagcagag cctggcgctg tacggcgggt 180

cgccgccgcc gcggagcccg cgggagctgg cgcgcgccgc gctgtcgggtg agcgcgggacc 240
gcgcgcgcgc cgcgtcggcg tacgtgggcc gcctgtgcgg cgccagcaac ggcaaaggcg 300
cgaagaaggg gtcgggatcg gcgtcggcgt cggcgtcggc aggtcccggtg cgcgactgcc 360
tggacaatct ggcggaacagc gtggggccacc ttcgcgacgc ggcgcatgag atgggcggcg 420
ccgggatggg ccgcgcgggtg acgccggcgt tcaggtggca cctcagcaac gtgcagacct 480
ggtgcagcgc cgngetcacc gacgaggaca c 511

<210> 30350

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H12

<400> 30350

gcataagaac gtaaaaccat ttgtgtcgca atggttacct ctaatgttca cctcttaaaa 60
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaccaaac aaaaaaccaa 180
caaatcacca ccaaacacaa aacccaaaaa 210

<210> 30351

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H2

<400> 30351

cccacgcgtt cgcccacccg tccgccaatc cttccgggat tccggaaaaa ttggccaagg 60
ggaggaacac acacggccac aaccagtttt acaaggccca caagaccggt ataaagaagc 120
caaagcgcca ccggcagacc ttcaccaagg gtatggaccc caagtttctg aggaacctga 180
tgtattcaag gaagggcaac aaaaagagtt gtgggtctga agaattaaaa agaaaacatg 240
gttggtttttt tta 253

<210> 30352

<211> 109

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H3

 <400> 30352

 tcccactctt cctcccactc gtccaccac tcttctgta ctgacaatta attttttaggc 60
 agactttatt ttaaaatata tataccactc cctcttatat taaactttt 109

<210> 30353
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H5

 <400> 30353

 cttactcttg gtctgactcg ttggaaaaat taaaaaataa aaaaaaaaaa aaaaaaaaaa 60
 aagaaggatt taattaattt atatataaaa tccattaaaa ttcccttcct ttcttataat 120
 atccttcttt attttctctc tctttctttt cttttttctt cttttttttt ttttccctct 180
 aataaaactt aacattcccc tcttttttcc actcttttat atttcttaaa a 231

<210> 30354
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H6

 <400> 30354

 ggtcgcccac tcttacgttt taagaacaat ctacagtaag tggcgttctg ccgcaacagg 60
 acttccacac tgaactagtt taagctgga 89

<210> 30355
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H7

 <400> 30355

 ctacttctag atccctacca ttgccttctg tgatactgac tcttccattc cgtacctga 60

tgtcggcatt ccagctaaca acaaagggag gaacaccttt ggggtgtcttg ttttgccttc 120
 tgcccaggat ggttctgcaa ttgaggggct ctattcttcc tgcgcacaag tggaaactca 180
 tgggtcaatct tcttttctac agacccccag aaaactcaaa ggccccgggag gagaattttc 240
 ccgtcccccc tgattttccc gcattcactg attaccaacg aactgatcag tgggggtgggtg 300
 atcagtggac ctcttattgg gg 322

<210> 30356
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H8

<400> 30356
 cgaccttgct acttcatgct gggaaagcgg tagaagcaat cacatgggtc cgtaagcagg 60
 tcagaagcta tgcacggggt cttggaacac cagaagttgc ttttcttcac tgggaatgggt 120
 ttagccggca gttcctcgtc tttggtgagt tgatagaaac aacatctaca actattccag 180
 atacattatc tcctagattt ggcaactgcag actatggatt gactgagtgg gaatttcaac 240
 cagcatacta ctatcagtta gcggcaactt acttgaaaga gaagaggtat gccatcgaat 300
 gttcatcatc aatggctaatt cttacaac 328

<210> 30357
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H9

<400> 30357
 ctcttatctt gcataagcat aagaagagag atccacatgt acaatgtagc tgaatcatac 60
 tgctacatct ctatcgaagc tatagccata gggctaagcc catgcccaatt cggcagccat 120
 aaagatctcg ggccccctgct gctgctgctg gtactcaatc tctcaaccct gaacgaaata 180
 cccat 185

<210> 30358
 <211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A1

 <400> 30358

 tcgcccacgc gtccggccag tcttgcatcc cgtccccgtc cgcgccggcc gacgccgcct 60
 tggcgctcccc gcgtcagcgt cgcgggtcca ctgagcgtgc gtgtcacccg cgggaggcaa 120
 gggcaggcgg tgggtggcgt ggcgtccgct gacgcgcgct tggcggggat cgcctcctcc 180
 atccgcgtca tccccgactt tccaagcca gggatcatgt tccaggacat cacgacgttg 240
 ctggttgatt ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300
 caagggatca ccgtgggtgc tgggtgtgaa gctagagggt tcatttttgg tccttctatc 360
 gcttttagcca ttggcgcaaa a 381

<210> 30359
 <211> 587
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A10

 <400> 30359

 cctcctctcc ttcgggctca gcgtgctcat cctcctctcc gtgtacgaga cccggttcag 60
 gacgatgagg agcgtcagtg cgtgggtccag tgacgggtggg gattatccat tgccaatgct 120
 ccggaacctt gtcatggtgg ctgggcattc gatctatacg agctcaagat gcggggagac 180
 cgagagttag aattcctggt tcttggagcc gtaccagaag cacgctggac aggcggccac 240
 cttcctggct cacatcaagg agggggtggg gatcgcgggc agggatgagg gggcactcct 300
 gttgttcagc ggcggggaga cgaggagaga tgctggcccc aggagtgagg cacagagcta 360
 ctgggctatt gccgagtcga aaggatggtt cggaaatgat gaggggtgaa ggagccgagc 420
 actcaccgag gagcatgcac gagatagttt tgaaaacctc ctatttagtg tgtgccgttt 480
 cagagagcta actggaagat acccacagaa cataactggt gttagctacg atttcaagga 540
 ggaacgtttt gcacaactgc acagaaccgc actcggattc ccggaag 587

<210> 30360
 <211> 252

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-A11
 <400> 30360
 gcatacctaatt gttgttgcct atagttattg ggggttattg ttattcttgg ttggttaaga 60
 ggtgagcttt atgaattatg gaacttcgga aaaagtccag cagaaaattt tgtcaatgaa 120
 ccatgacaac aaaatccagg gaagatgtat tcttcagcgt agtagatagc ttgaggatgt 180
 ttattaggag gcaccgtgta ttgcaagatg ttatgttttag cattatttca aagaaggatg 240
 ctattgtgtt tg 252

<210> 30361
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-A12
 <400> 30361
 cccacgcgtc cgcctgaagt ctgggacggg ggcgtcgggt tcgtgtcgaa ggaaatgatc 60
 cagactcatt gccacgcgcc tgccgccgac attcaggtat tgcatgtgg acctcctccc 120
 atgaacaaag ccatggccgc gcacctggac ggccttggct acacgaagga gatgcagttc 180
 cagttctaag cgttacattc tctctaccag taccagaata aacggcgggtg gaacaaagtc 240
 acagtcacag agcgtcgtac ttactctacc tggatgaaag cagcagtaca gtacccacct 300
 aatttgtatc ggtgtcggga cattgtaccg tgccgttctt ttgtatcggg ttgtcactca 360
 ctactcact ccgcgagcca gcagcccagc acacgatcca tcgtgtcgtt ttggcaacgt 420
 c 421

<210> 30362
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-052-Q1-K1-A2
 <400> 30362
 ggctcggcag tcggcagtat taggggtgtt agtttgggtga tctctgagaa cccagggagt 60

cgtatgtgct gtaaagggtga agctagaact agaacgccgc tacatcagtc agtgccatta 120
 ggcttagtac attcttcatg ctacagctgt ttcgtcaata aggaaactac gtgtatgac 180
 tgcggacggc aggcgaaaat agcacgtagt acaattccat tcctacatat cgggtctgtt 240
 cttgctctgc atatttcttt ctctagaggg gatgttatgt aacgcaatgc aacacccta 300
 cctggcgtgg gtgtgggtgt ttggagggg 329

<210> 30363
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A3

<400> 30363
 acccacacat acagacacat ttgactcta tttgtgacag ttaaaataaa caaagacaaa 60
 tatgggaaaa tagaaaaatt taaaaaggtc tggaagcctt aacgtcatat aagtttagct 120
 agcacaacca tgatacgtaa tggaacatgc tatatggacc gcaaaataaa gtccagtgt 180
 ctacattctt aaacactatg accgtaaaaa ccatggtgat cccaaactta atctcgttgc 240
 ga 242

<210> 30364
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A4

<400> 30364
 cccacgcgtc cgcttcctgg aaggcggcta gggctttgac accgacatca ccggcaccgg 60
 cgcgctgcgc atgatgcctt tcggcgccgg ccgccgcacg tgccccgccg ccacgctcgg 120
 cgtgctccac atccagctca tgctcgccaa catggtgcgc gagttccgct ggctgccgcc 180
 cgccggtgag ggccccccgg accccaccga gaccttcgca ttcaccgtcg tcattgagaa 240
 cccgctccgg gcagccttcg tcgagcgggc cagcactgag acggcgacaa ccgcgtgacg 300
 agtgacgacc gaaaggtata aaaa 324

<210> 30365
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A5

 <400> 30365

 gccacgtttg cgctctatgg tgacgggtgcg gctaaccagg gacagctctg ggaggctcgc 60
 aacatttcgg ccctctggaa gctgcccgcc atattggttt gcgagaacaa ccattatggt 120
 atgggaacag cggaatggag ggcagcgaag agtcctgctt actacaagcg tggcgactat 180
 gtgcctggat tgaaggttga tggaatggat gttcttgctg tgaagcaagc gtgcaaattt 240
 gcaaaagatc atgctgttgc aaatggccca attgtccttg agatggatac ctacaggtac 300
 catggccact ctatgtcaga tccaggaagc acttacc 337

<210> 30366
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-H1

 <400> 30366

 cggacgcgtg ggcgacgcg tggggcctcg ccgagctccg cgtgctcagc ctcaagggcg 60
 gcgcgtccca cgggcccgtc ccggacctct ccccgctcgc caacctcaag gcgctcttcc 120
 tcgcggggaa ccgcttctcg gggcccttcc cgcctcgtc cgctccctg cgccgcctcc 180
 gctccatcga cctctccggt aacaggctct cgggcgcgct cccgcccggc atcgaggccg 240
 ccttcccga cctcaccctc ctccgcctcg acgccaacca cttcagcggc accctcccgc 300
 cctggaacca gtcgtcgtc aagtgtcaa cgtctcctac aacaactttt tcggggccag 360
 tgcccgtcac gcccgtcac tcgcatgtcg gcgccgccgc gttcgctggc aaccccagac 420
 tctgcggc 428

<210> 30367
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-A6

<400> 30367

gccacgctga cgatcacacg ttcgatggag caaaagatgg acaaagaca gtacacgggg 60
tgctgacca tgggtgcacat ggctttctgc tcgtccctcg cgtggcgct cgtacgcgtc 120
ctacgagtcg tggacctccc gtctcgccc gacatgacgt cgcagctcta cctctctac 180
gtggtgccc tgggcgcct ctactcgctc tcgtctggt tctccaactg cgggtacatc 240
tacctatccg tatccttcat ccaaagctc aacatgc 277

<210> 30368

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F3

<400> 30368

gacccacgcg tccggccacc cgtgcagtga cagccttacc aagagcatgt ccaagatgag 60
ttccaacctc aagggcgcg ctaaaccttc tgcttacaac tcatcataac aatgataagt 120
tctcaaagac tatttcaaga cctattataa taccctaat ctgcacctta tgctgcccac 180
gattcgaccc atcataactaa cactcataat taaacttacc aattattgat gcacatttga 240
ctggacatgt tactattttt tgagtaccat atggaggacc agaggtttga tatcttgaac 300
gttcctgtga acatcaa 317

<210> 30369

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F4

<400> 30369

gacacaaaaa aaaaaaaaaa aaaaaaaat aaaataacta aaaaaaatc aaaaaaaaaa 60
ggcagggtact tactctttta cataaaaaact ctacaatata ataaatcatt ctttatatac 120
tatttcatta cctcttatat tccccctttt atgtacatat ttcttcacat tttatgattt 180
cttcatacta accattttta tta 203

<210> 30370
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F5

 <400> 30370

 caagttccct ggccgccaaa agattattga gagcagaaaag tgggggttca ccaagttcag 60
 gcgtgccgac tacctgaagt acaagagtga gggtagaatt gttcctgatg gtgtcaacgc 120
 aaagctgctc ggtaaccatg gaagacttga gaagcgtgct cctgggaagg ctttcctcga 180
 ggccgttgct taagtccaat ctacagttgg aatgcgaatc cagacgtttt ggttttagcct 240
 atcttatttt gctttgtgca acatgaattt taagtgtatg ggggtattaca gtgccttgctg 300
 tgaacctgct tatctcgtgc tgaacatcgg tatgcatgga agtacttata ttttgttctg 360
 ctaaaaatta aagtgttctt gcgactaaat atatcttctc aatctgggct tgtctcttta 420
 aaaaacaaaa aaagaaa 437

<210> 30371
 <211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F7

 <400> 30371

 gacacgcgtg cagtgcacgc cttaccaaga ggatgtccaa gatgagtgcc aacctctatg 60
 cggcggctga cgcttctgct tacaactgat cataactatg atcagtgtt aaagactatt 120
 tcaaggcata ttat 134

<210> 30372
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F8

 <400> 30372

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 cttttgctac caccacgga ggctgttggt tttttcactc aatctgtgat gtcttcttgc 120

atacatgtcc tactacatat tgaacattga taagctacaa cctaattggtt acaagtcacc 180
tatactgCGT ttggatgctg gtattgaggc ccagattttg gaattggaat tggtaaagcc 240
gaatttcagc gtttggatgc tcacggaatt cggaactgga aatccatccc aattcccctg 300
gtattcaact acacctgcac cccctcccct tcaataccaa gccccccacc tcggtattgc 360
tcagaattca attacacccg catccaaaca acaacattgg tattgcagat caattccatt 420
tccctcagat ttgg 434

<210> 30373

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F9

<400> 30373

tcgggttttc tcgccgccgg cgccgctggtt tctcgtttc cgccgcacatcg atgcctcgcc 60
agggactttc ggatcaagag gaagctggcg aagaagatgc gccagaaccg acccatcccc 120
tactggatcc gcatgcgcac cgacaacacc atcaggtaca acgcctagcg caagcactgg 180
cgccggacca agctcagctt ctgagcgctc agatcggtcg gctactgcat cagaattcta 240
aggtctctac ctttgccttg gttctatcaa agtctcttga ggttatgaaa gctagcgata 300
ctcctcagaa agcttttggt aagattttga ttacactaag aagattgatg cttctatgcc 360
gtgctcaaga ttccatgctg cattgggata ct 392

<210> 30374

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G10

<400> 30374

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ggaaaagttc cggaaggagc ttgacgagat tgggttgccg ttggtttcgc caagaattgg 120
tacttcgcgg ttacagggc ccggaacagt ctagagtgtc cccctgtgtg ctgggtatcc 180
cctttgaagc tcctagttgc gaagttggc 209

<210> 30375
 <211> 631
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-051-Q1-K1-G11

 <400> 30375

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atattgttga gttctgggtc tgatatttgc agagaactac ttgagctgga accagcttga  180
tcgctggaag aaccctgtca aacagtcggc tagccagtaa ttataccaat caaagcatta  240
aaagaatgca cgaaaaggac aggcaaagtc cttctgtttc gccatccact atgttttagtc  300
agtcgtgtgg acgatggact gattgccagt tagtagtacc ataaaaatat gaatagaaca  360
aatgcatctt tatcataaag gccaaaacaa ctgccgcaat gcttatcgca atcctttgca  420
ggataaaata aaatcacagg gaagccatct cctgacagtg ttcaccgatc cgctagatta  480
atcgaagaaa cgaaatcagg tcaattatga ccggcattgc atcaatcaac ccaagaaaga  540
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ctcgaattga cgcgtcaaaa tcccaaacc t                                     631
  
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<210> 30376
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-G12

 <400> 30376

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cgcggtggcg gccatggcgg cggcgcagca ggcgtcgaac gtgcggggcg cgtaccacct  180
gtacaacccg gcgcagaacg ggtgggacct gaaccgcgtg agcgcgtact gcgccacgtg  240
ggacgccgac aagccgctgt cgtggcggca gaagcacggc tggacggcct tctgcgggcc  300
  
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gggcgcgtcc atcgtggcga ggatc 385

<210> 30377
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G2

<400> 30377

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tgaagccaga gaatctactt ctggactcac atggaaccct taaagtttca gactttggcc 180
taagtgcatt tgcaccacaa acaaaagagg atgggcttct gcatactgcc tgtggaactc 240
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tatggctctg tggcataatc ttgtttgttc ttatggccgg atacttacct tttgatgatg 360
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ttttttctgg agcaagga 438

<210> 30378
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G3

<400> 30378

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ggaataatga ctagctttgg gagggaaaac taccgtgatg ctgtcaggaa atcatggctt 180
ccgacaggtt caatgttgaa gaaactagaa gaagaaaaag gcattgtagt acgttttgtt 240
gttgaagaa gtgcaaatcg aggagatact tttgataggg agatcgatga cgaaaatagg 300
agcaccaagg atttcttgat attggatgat catatagagt cagatgaaga gctttctaag 360
aagacaaaaa gtttctttgc taatgcaaca aatacattcg atgctgcatt ttatgctaag 420

gtcaatgatg atttataca

439

<210> 30379

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G4

<400> 30379

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ctatctacca taccagtagg tctactattc tatgcagata aacatacaca tcaccatggt 120

gccttcctta taaatcccaa tctcaacat 150

<210> 30380

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G6

<400> 30380

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tgcaattata ctgcgcgagac aaatttaact cattctggga aaaagccact ggttggttatt 120

gcaataatga ctacctttgg gatgaaaaac taccctgata ctgtcaggaa atcatcgctt 180

cccacatggt caatgttcaa aaaactataa gaagaaaaat gcattctagt acatttccta 240

ctttgaagaa cctcaaatcc ttgacatact attgataggg agatcgatta caaaaatatg 300

agcaccaagg attacttgat ttgggatgat catctagagc caaatcaata gctttctaaa 360

aaacaaaaaa ttgttttact aattcatcaa atacattcta ttctgcactc cattgctatg 420

tcaatgatca aatatacata 440

<210> 30381

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G7

<400> 30381

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 ccgatcatcg acatggggct gctcgccggg gaggagaggc cggcgggcgat ggagctgctg 180
 caagatgcgt gcgagaactg gggcttcttc gagattctga accacggcat ctcgacggag 240
 ctgatggacg aggtagagaa gctgaccaag gagcactaca agcgggtgcg cgagcagagg 300
 ttctctgagt tcgccagcaa gacgctcggg gacggccgcg acattgcgca gggcgtgaag 360
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<210> 30382

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G8

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 aagttttttg tcattggcct tttcaccact tttgctt 157

<210> 30383

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G9

<400> 30383

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 gagccgcaga gggtagctgg cgaggctgct cagatacgtc tgaggcctgt gcagctgcgc 120
 ccgatcgata tcaagatcaa ccgccaggctg accttctgca aacgcctgaa cgggctgctg 180
 aataaggccc accagatctc cctgctctgc gacgcagagg tcgcgctcat cgtcttcttc 240
 actaagggga agctatacga gtactctagc cattccaaca tggaaggcat tcttgagcgt 300
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<210> 30384

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F2

 <400> 30384

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 gatcaagctg ctccgccaca tggaccacga gaatattggt gcaataaggg atatcatacc 120
 tcctgcgcag agggctgcat tcaatgatgt gtatattgca tatgaattga tggataactga 180
 tctgcatcaa attattcggt caaatcaagc tttgtcagag gagcactgtc agtattttct 240
 ttatcaaatt cttcgtgggt tgaagtatat acattcagca aatgttcttc accgtgactt 300
 gaagcctagc aatcttcttt tgaatgcaaa ctgtgacctc aagatatgtg attttgggct 360
 tgctcgacc acctcagaaa ctgattttat gactgaatat gttgtcacia gatggtatag 420
 agcaccagag cttt 434

<210> 30385
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-D8

 <400> 30385

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 taatgtgacc aggacctgac gccctgtgct gtgctgtgct gtgcttcccg cgtaataacg 180
 gtgtactagt taccttcttt gcagaaaatg ctttctagga atgagagcgg aaatatttct 240
 accatttatt taaggctcctg tttggaaaca acccaacagt ttttaagaca ccagttttta 300
 tcttttagct ttgagagacc aacttcttgt ttttatgaaa gtgggaatca aatttctata 360
 aactgagcca taaactggtg gtttcttttag aaccacctca ttttttataa accggtttgt 420
 t 421

<210> 30386
 <211> 446
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D9

<400> 30386

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ccaaaggcca catgacctat acatcagcat cctttgccta caggctgtcg cacatatcac 120
cgaaccctga ctcatctgac catgatcttc tcaactgctcg aacggaggta gacaaggctg 180
ctcgcgcttc accatacata tactctgggtg gccgaaggct tgtgtgcctc ggtgaacact 240
tagcctacct gcacatcaag gcaatctgga cacacctact gaggaacttt gagctcgagc 300
tggatatatcc atttcaagag aacgactgtc acgacatggg tgatggcatc aaggccgacg 360
tgatggttca ctacaagagg cggaagcttg acgtggacaa ctaagattgt ggccacaatc 420
tctacatgct tgctttcttg cgattc 446

<210> 30387

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E1

<400> 30387

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gctcgagtc gtctctttga tgtaatactg cattcttctg ttggagacgt gtcaccagaa 120
cttgtggagc aatttangac cagacaaagg aactttgaca ccgaatctcg cgcaggtgca 180
gcagctaaag tgaagcaaaa tcaacatatg actgccatac ctggtctgag gatttcacgc 240
agagttaaag ttacaaaacc attactatta gaagctatgt atgcaaattg attcataggc 300
gcaaagatga ttcgagcaaa gttatttcat aaatttctgt gggcttatgt caattctttg 360
ccaaattggg gcaatgcatt tggtt 385

<210> 30388

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E10

<400> 30388

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ggctccgcca cctccagcac gagtggcaaa tggctctggg ccaatgattc caccgccacc 120

taacttcact ccgggagcac ccccaccgcg cctccaatg caaggctttc ctgggcaaca 180

gcagtagttg actgcttagc aggcaatgtt ccagtaattg gcagtcagta aaagtttcaa 240

gcttgtgttg actattgttt ttcggcttaa aactttgtat gttgtctggg actatactca 300

aacggcagct tgttggattt ttttztatcc acatttatcc aagtgtttgt tt 352

<210> 30389

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E11

<400> 30389

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tgcattgact acgattcata tcaactctac agatctgtct atatcaacat tctgaccttt 120

caaatgaagg aacaatcatc atattggatt aatacatata cttaggctct gaagactcta 180

acgaaatcaa cgaatagaaa tacacttgga aatcatatct cccggt 226

<210> 30390

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E12

<400> 30390

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ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcgggtgtg cctctgcacc 120

gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc ccatcaacct cagcctcctc 180

gtcaactact ggggcaggcg cgccccctcg ggcttccagt gcttctgact atcacacgcc 240

catcgatcga tcgatctgga ggctaaataa tttctccaag ctgctagtat acgtacgtac 300

gttgatatat atgatgtagt attatatata tgtccatgca tctcgtcgtc tatcgcatgt 360

tggtgtgtgtt gttgtgtgtt ttcatgatc ctgtctctgt tataaatatc attattatt 419

<210> 30391

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E3

<400> 30391

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acatggctag cctgctagcg tgcggcacc acacaacaca acacactgct cgccagaagc 120

gccccaggag gccaggggag gacacgacgc cgccatcagc catcatcatc atctcagact 180

cagagcatgc catggcacgc aactgactga ctgactcgaa acacacacag cgacgccgct 240

atactttatt aagctttata attagctagc tttctccggc cggcctgcag ggtggagcac 300

ctagctcact tgccgcagtt gcaggg 326

<210> 30392

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E4

<400> 30392

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gcggacgttg agtaccgttg cttcgttggc ggccctcgct gggccaccga cgaccactcc 120

ctcaacaacg ccttcagcac ctacggcgag gtcctcgagt cgaagatcat cctggatcgg 180

gagacgcaga ggtcccgcgg cttcggcttc gtcaccttct ccacggagga cgcgatgcgc 240

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gccagtcgcc gc 312

<210> 30393

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E5

<400> 30393

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tgagtattgt ttcatttgaa gtnaaaaaat cggaacgcca ggtgggtctgt attttggctc 180
taggttttcg gtattgtacc cgtcaacatt gtaatctctt cttgaacttg cagntttcgc 240
tgtccctgaa gccgagtttt attatacaca taatagacct gggatcggtg accgttttta 300
aaataaaaaa taatgggtatt cttaataagg tttatataag tgcaatagat aatatcttac 360
aaaagttttt tttattaaat attaaaaaag gcgcggcccc cttttttttt tcaatatttt 420
taattttttt tatttttttc caaaaaaatg gtcgttttat 460

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<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E6

<400> 30394

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aaatggcaag gccaaagtaga tgtgccatca cttcggcact ggagtgaata agaaagtatg 180
attgggtcct gcctaggccc catagatata gctctttttt gagaaggaag agagattaat 240
tcagcagcag cttttataaa ttctttgttg tcatgaagca ggtggttctt ttgtagttga 300
tgaaagggat ttgtcgtcgc tctcgtttac ataattcaga caataatttt atattgtgta 360
attctgagaa tcaaagcact gtttgtgtta tagcatatct aagaatgagc atttgctgtt 420
gttt 424

<210> 30395

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E7

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cacgccgggg cacatggcta ggcctctccc ntactgcacc cacacaacac aacacactgc 120

tgcgcagaag cgcccatga ggccagtga ggacactacg ccgccatcag ccatcatcat 180

tatctcatat tcatagcatg ccatggcacg caacttactg actgactcga aacacacaca 240

ttgactccgc tatactttat taagctttat aattagctaa at 282

<210> 30396

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E8

<400> 30396

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gggtttcttt tatggccatt tctctctcat tcctctacat tcatgcgtgg gtcattggata 180

ggcatgagaa aagattgtac gtacgtatct tgtgttctg tcccaatga atggatggaa 240

ccaaacgtgt gtccctttcc aaaatacaat caaaaaaatt atctttaccg ttacttgaaa 300

actaacaat tttttttga attcaaactg tgaactcaag aaattttgtt tttttggctt 360

ggtggggccc cctttataaa attctttttt tacctactat ttttttccca agatagtttt 420

tt 422

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<223> Clone ID: LIB3067-051-Q1-K1-E9

<400> 30397

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ccggcacgag gtccaagaag agatgcccac tctggtggcg ggatggacga ggattagttc 180

gattatagtt gttatctttg tatcacgtat gtgaagcttc agagcagata tcatacttta 240
tcttggctct tggttctagt aaaagtttgg ttgcttggag ttactacat gaacgtctgc 300
accgttgccg atatatgaca taggcaatcc gtatgtacc tgctgggtga ttgcagttcg 360
gctgtattac atgattcatt acaggggccg ctccttcagt tcatcacacc 410

<210> 30398

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F1

<400> 30398

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ccccatcagc gtcttccttc acatgttgaa acattgctcg acaaaaatta agataggctt 180
tgtccgctac gagcagtcca gccagtgcaa gaacatgagg gatagcagcg tgagctatgc 240
atccgcagca gcgaaggttg ctggtgcatc cggggaagaa gataaacaag actgagcgag 300
ctacagctct ggttgatata ctatatataa accgccaaac cttggtgctg aatgtgtgac 360
tggtttccca taagaaaaag aacatgtgat ttggtaaaac attttcttct tcagtaaaaa 420
taataaata 429

<210> 30399

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F10

<400> 30399

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaat 120
aaaaaaaaa cgtacaaacc tttaaatacac aaataaaac cacataaaaa tataacccaa 180
aaaattaaaa aaattatcta cacatt 206

<210> 30400
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F11

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 tgcgccagaa ccgccccatc cgctactgga tccgcatacg cacggacaac accatcaggt 180
 acaacgccaa gctcaggcac tggcgccgca ccaagctcgg cttctgagcg cgcggatcgg 240
 ccggctcctg cgtcagaatt ctacgggtctc tacctttact ttggttttat cgatgtctct 300
 tgcgtttctg taagctagca aacaattcca gaaaagcttt gttaagattt tgatgacgct 360
 aaaaagattg atgctactat gctgtactca agattccatg ctgcattgcg atgcttaatt 420
 aaaaaacctt tgttacctt 439

<210> 30401
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-F12

 <400> 30401

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 ctccggtcgc tttgcttggc tcgggccact gcaccgccat tgttgatctg ttctccttct 180
 ccttgaggga gaaagaaaag gggagaggaa tgatggggcg cacgagcgtg ccggcgggccg 240
 tgggggccct gctggtgctg gcggcgtgcg cggctctgcc ggcgaggacg gcggcgaaca 300
 agatcagcat caactggaag cccaacgtga actacaccga ctggctgaag cagcacagcc 360
 ccttctacaa ggacgactgg ctggtgttct actacacggc tgggcaggct gacgtggtgc 420
 atgtggacga ggtgggctac aacaagt 448

<210> 30402
 <211> 321

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-D7

 <400> 30402

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 tgggcttcga cgcgcgtgta ctccggtggg tttatttttag aaatcagcag tgaagcaaaa 120
 taattgtctt cggatatgtt aaactggctg agccattcaa aatccacgaa gcgcgagtga 180
 ggtgcatctg aatgtgggtg tggttggcga atggggacga tgaaaacgct tacggccgtg 240
 ctgtagcaag ttttggcata tattccttgt ttctaccgag agaaaaatta aataattatt 300
 aacacataga caattataat g 321

<210> 30403
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-C11

 <400> 30403

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 gtcactgtca ccatgggttta ccaataacctg aacgacgtca tcggctacta cgcgaaactt 120
 accctccagc aattctagga tctcaacgag caaccaggtg ttatccaagt tgtgccaatc 180
 caaacttacc agctacatgg cctcaaatec tgcactcacc atggcacgac acac 234

<210> 30404
 <211> 587
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-C12

 <400> 30404

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 gtcggactcg gaggagcacc acttcgaatc gaaggccgac gctggggcgt ccaagaccta 120
 cccgcagcag gctggcaccg tccgtaagaa cggcttcata gtcatacaaga accgtccctg 180
 caaggttggtg gaggtttcta cctccaagac tggttaagcat ggccacgcca aatgccactt 240

tgtcgccata gacatattca atgggaaaaa gcttgaagat attgttcctt catcacacaa 300
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 atttgtgagc cttcttactt cagatggcaa cactaaggat gatcttagac tcccaactga 420
 tgagactctt gtggcccaga ttaaggaagg gttcgaaagc gggaaggatc ttggtgtgac 480
 tgtccagtct gcgatggggg aggagcagat ctgcgcgttg aaggatgttg gcccgaagta 540
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<210> 30405

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-C2

<400> 30405

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 gagccaagaa cctttacatc atttctgtga agggaatcaa ggggcgcctt aacaggcttc 180
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 ggaagaaggt gatgccagct gtcattgtga ggcagcgcaa gccatggcgc cgaaaggatg 300
 gtgtctacat gtactttgaa gacaatgctg gagtgtattgt gaacccaaag ggagagatga 360
 aaggctctgc catcactgga cccatcggaagg agtagtgtgc tgatctgtgg cctangattg 420
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<210> 30406

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C4

<400> 30406

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caactgagac ataattgccca tacttttgact cttatgtgac tttcgtcgag aatggactgc 180
 tggattatct ttttctgtgt tgacgtaacg aggtcgataa gaaactgttt tgaaacctga 240
 gtggcaaact caagtgttgc atagacaagg acataaagta atgccacccg aactatgcac 300
 cttgcgtcct tgccccggtt ctaacaattg atgccccccc ttgcattttt gtttgactgc 360
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<210> 30407

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C5

<400> 30407

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 gccggccatg gcgcggagga ggggcttctt ggcggtggtg ccgtcggcgt ggctgccggc 180
 ggtgctcctg tgcctggcag gcgcagcgtc gggcgagccg ctgccgcaat actacaatgc 240
 catcttcagc tttggcgact cttttttcga cacgggcaac ttcgtcatta tcaactcggg 300
 caagctgccc aacatgcca agttcccg 328

<210> 30408

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C6

<400> 30408

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 cgcacgccga gcaggccgtc gccgctgtag cagcaggagg agagggcggc actgcaagcc 180
 cgggcaccgg cctcgaaggg ccggtgctta ggcgggggct ggacggcggg ggggaagggg 240
 aggacgggga gctggggggc gggcaggagg cggacgcacg gctaccggag cggactggcg 300

aggcggactg tggctactac cttegcacgg gcgcctgcgg ctteggggag cgttgccgct 360
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 cacaagactt ttcaaaacga 440

<210> 30409
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-C7
 <400> 30409

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 ctcgaccctt ttagtctccg tccgacaccg cttggatcag agatggaatc accacccttc 180
 acagctgaag caattgcttt taccgagaaa aagatggaca tgactttgga ggatataatc 240
 aagatgtcaa agaaaaaaaa tcttggaagc aagaaccccc ctaggcaggc gatcaaaaag 300
 cgtccattcc agaattg 316

<210> 30410
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-C8
 <400> 30410

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 gtatacgcac atagacacgg cacggccatg acaactatat ataatatggg cacaagagct 180
 ttattttattt aatttacaca cgacgatgat gagcgaattg aaataaagga taatggagga 240
 tggagcaggt acgtagctag cagtagctcc cctgctatta ttcgaattaa atctgacgca 300
 agtaaacacc gatagcatcg acgagcctgg ttcccccccg cgcatagaat cccacgatgc 360
 tgctgccgat gggcgccgtg acggagaaac gcgtcccggt ctcgacaccc caggggcccc 420
 aggttctgct gctggtga 438

<210> 30411
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C9

<400> 30411

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agcttttctaa cgccactgcc agcgatccga cggtcgcact tcaagaacga atcggacaca 180
gcactctggc tctatcaacc gtctgcgacc aaagctcacg gacgccttca cgattctatc 240
tccgatcatg cggcaattcc cttccggaca tactgggggg gtgttggtcg caccgcgcaa 300
gctaaagctc gccactgcaa tgggcatggc ccgcggccgg ttaaagtagc cgggtgcatc 360
gtggatttgc tgaagaatgc tgagagtaac actgatgtga aaggcttgga tgtggacaac 420
ctctataatt cacaca 436
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<210> 30412
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D1

<400> 30412

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ggaggaacag tcattcttga tgattgcaat ttccatgagt cagtacatct ggacagtttt 180
gatattgaca gaactttgac ttttaataccg cccgatggag aatttcctgt aatgaactac 240
cgtatgaccc aagaatttaa gccaccattc cgtgtaaccg cactaattga agaagctgga 300
ccagcgaggg ctgaagttct actgaaaata agagctgact tctccgcgag tgccactgct 360
aacacaatcg tagtacaat gccagtgcct gcatacaca tgagagcgag ttt 413
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 <211> 378
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D11

<400> 30413

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gccacgtgtt cgccgggcac tgccgcatcg gcaagcaccg gaagcatccc ggatgtcgcg 180

gtaacgccgg tggcatgcac caccaccgta tcctcttcga caagtaccat cccggctact 240

tcggtaaggt cgcatgcgc tactttcaca agtcctgaa caagttctac tgtcccgcg 300

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acaaagcccc gcagatcg 378

<210> 30414

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-D2

<400> 30414

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ggagggggctt cgcgtcgag gccgccaagc ccaccgggaa ggagatcaag gttccaaagg 120

ctctgttttg cggcacaggc aactatgcc a gtgactgtt cctcacagca gctaaatcta 180

atgcattgga caaagttgaa tctgagatta aagctattgt agaggttcc aagaagagcc 240

cgttgttttc tcaattcata aaggacttgt cagttccaaa agcgaccagn gtgaaggcta 300

tagccgaaat atttgctgac gctgggtttt cagatgttac aaagaatttc ttggctgtcc 360

tggcggacaa tggcaggctg aaatatattg aacgcattgc gg 402

<210> 30415

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D3

<400> 30415

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 atgatcaagc ccgacggcgt ccagcggggc ctgatcgggg acatcatcag tcgcttcgag 180
 aagaaagggg tctacctcaa ggggatgaag ttcataaacg tggagagggt cttcgcgag 240
 cagcactacg ctgacctttc cgacaagcct ttcttccccg ggttggtgga gtacatcatt 300
 tccggccccg tgggtggcgat ggtgtgggag gggaaggacg tcgtgttgac tggccgcagg 360
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 gtgg 424

<210> 30416
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-D4
 <400> 30416

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 tacattcgat tcgctgcagc ttgtattgta tgtagccttt ttgacgtgta gcacgcttgg 180
 tgttgagagc aatgtacacc tgtactgttg ggtcgggtgt gattataca 229

<210> 30417
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-D5
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 ttcatattac agaaagcact gccgacggat gatgtgaaca gggcacaagc agataatatt 180
 taggacactt ttagaaggct tcaatcaaac catcttactt agaaaggaga agctgaggtg 240
 ttgtccaagg atgggtatcg atctttcatg gggttcaacc ggccgctgct ggacccttca 300

tctaatatgg acagtgaaag tcatctagtg caacggagga ggcaataagg aaccgaagaa 360
gacatcaagg tttctcagaa ctggttcaaa tgacaactcg ttagccatgc ttgatt 416

<210> 30418
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D6

<400> 30418

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gcggattttt tttccacca caccttgtct gcgccgtcgt ttgctgcaac gatagccttc 120
cccgacctgc tcttcaatct gcggaacctc ttctacctgg gcgcctacca agcagtcctc 180
aacaacagcg acgttccggg ccttt 205

<210> 30419
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B9

<400> 30419

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gccgcgcgac gtggccggtg tgctttggtg cggggctccg ggcgatccgc cgtccgctg 180
tggccatgat ccgctcaggg aacgcttggc ctatcgacgg taggcgatcg gagcgacgg 240
gcgccggcgc gcgtcgttct ccgttcatgc 270

<210> 30420
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A2

<400> 30420

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 ggcctcgcct gggccacgga cgaccactcc cttcacaacg ccttcagcac ctacagcgag 180
 gtcctcgagt ccaagattat cctcgatcgg gagacgcaaa ggtcccgcgg ctteggcttc 240
 gtcaccttct ccacggagga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac c 321

<210> 30421
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A3

<400> 30421

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 acaacgagtg gggctacagc aaccgcgtcg tcgacctgat ccgccacatg ttcaagaccc 180
 agtagagggt tttccccctg cttctcatgg atggttgctg cttgtgtatg ccgagaataa 240
 atgtggatgt cgccagggtc atgctgagtc tggacatgtt ttgcactttt gtttccattt 300
 ctgccatcat ctgtggcaga tccgctcgct aatatgggac ctgagattag ctttt 355

<210> 30422
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A4

<400> 30422

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 acatgagggg aacgatgtga ccaagtactt tgtgagcagt ggatttgctt tcgtccatgc 180
 aaactccatt gctgatattg tggctgttga ggctgtccct gtggatcaga tcgaccacgc 240
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 ggagaaggct gaggctcaga tcggtgtcga tgttcacagt gcgctcaatg ctgcattgac 360

cggttaattg gtgtcatctt aaattgtctg tcttttagat tgagttaaac tttgcaaatac 420
ctaaataaat tatagtccat 440

<210> 30423
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A5

<400> 30423

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tggagggttcg ccttggtttg tccaaggac ctatctgtcc tagcttcaat tgaggcagta 180
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gatggtgaaa tatgaaaact ggtagcttgc atctgttcaa tgttatgttt taatcaacgc 300
tgaatttaat atttgtcaag tttgaactta aaaaatttaa aaaatatttt ttttataaat 360

<210> 30424
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A6

<400> 30424

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ctgtcgcta tgggtgctgct gtccaggctg ccatactgag cggtgagggc aatgagaagg 180
tgcaggacct gcttctgctg gacgtcacc ctctgtccct gggctctggag actgctggag 240
gagttatgac agtgctgac ccgaggaaca ccaccatccc caccaagaag gagcaggat 300
tctccaccta ctcgacaac cagcccgggtg tctgatcca ggtctacgag ggtgagagga 360
cccggacacg cgacaacaac ctgctgggca agttcgagct ctccggcatc cccctgcac 420
cccgtggtgt g 431

<210> 30425
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-A8

 <400> 30425

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 tggagatctg gtcggcggtc ggcgggcggg tcccagacac gtcacgcgtc atggggccact 180
 tcttcggcgc ggcgggcggg aacgtggggc gggcgggacgt gatgagcatc caggacgcgg 240
 tgggcaacac gcggggcggg ggcacggggc cgctgctgcg cgagggcgcc gccgcgctgc 300
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 cggagggcggc ggcgggcggg tccgacggc 389

<210> 30426
 <211> 493
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-A9

 <400> 30426

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<210> 30427
 <211> 425

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-051-Q1-K1-B1

 <400> 30427

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 tgacggacaa ggtaatcaat cctgtggttc caagtctggg tcacacaaca aataaagttt 360
 gcgtgctctt tcacagcatn gtcaaaatct gtagatgacc aaactgcatt gtgtgtgtgt 420
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<210> 30428
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-B10

 <400> 30428

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 caccaacatt tgattgaggc ctgaatatca atatatcggc gtgacatggc gttgatgttc 180
 aggagccaca catgctcatt gccaatggag ttcactcctg tctttcgaga accaaaatgc 240
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<210> 30429
 <211> 516
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-051-Q1-K1-B12

<400> 30429

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gaagaagaga acatccctcg tgccatcttc aacaagcatg ccagcatcgc cgagtgaagt 180

tcttgccgcg gattttctaac tgcccttcgt tgaagagcaa gcttgccctg tataataatt 240

tcatggtaca ttctttacat gcattgggtg gaaacgattc tttcacattg ctcatcaatg 300

gtggtgtaac ctgcaacatt ctttatttgg tttcataggg cattcagtca gtttacgggt 360

ggtagtttgt cggaacatgt acccaatttt tctgatgaaa caaatgtttg agcttcaaaa 420

aaaaaaaaaa taaaaaaaaa aaaaaaatta aaataaataa aaaaataatt aaaaaaaaaa 480

taaaaaaaaa taaaaaaaaa aaaaaaaaag gggggg 516

<210> 30430

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B3

<400> 30430

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acaaactgga attggcacgt ccattgccat agctgggtgtt gctatgtact cttacattaa 120

ggctaagatt gaagaagaga aaaagaaaaa gagcgcatga ctgctgtgaa taatattatc 180

gggaccttac tgggacacaa catcgtagac aattacgacc tactttctata ccttgtttag 240

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<210> 30431

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B4

<400> 30431

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catcttcgag aagctcgcgg ccgagtcgcg caagctggcg cgctacaaca agaagccccac 180
catcacctcc cgcgagatcc agacctcggt gcgcctcgtc ctccccggcg agctcgccaa 240
gcacgccgtc tccgagggca ctaaggccgt tacgaagttc acctcgtctt aggatccttg 300
taatggatcat gtgggcgtcg gcggtaggcg tggctcagtt tatgtgatac tgctagcgat 360
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<210> 30432

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30432

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ggatttcttg actcttgaaa tgtgttatat attactgaat ataaagggtgt aagagggacg 180
cggaatggaa gacctgtgtc gctgccacag actgcagctg gaagcagatc gcggagccgg 240
tgatgtgcct gtacagggag acgacggacg gctcaaccat cgaggacagg gagacggtgc 300
tcgtgtggaa ctactaggac gcggaccccg actttgggtc gtgccaggcc aaggagctcg 360
tcgaccacct tgagagcgtg ctgcggaacg agcctttgtc tgtgaaaacc acgcctcact 420
catttgaagt ga 432

<210> 30433

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B6

<400> 30433

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attctaattg caacatacat gaatgttatg gcctcgacct gttgggtgat ggaataccct 180

tgtagagcag ggctgcgact atgactgagt accttcaagc ttatgaactt tattaggatt 240
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<210> 30434
 <211> 443
 <212> DNA
 <213> Zea mays
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 <400> 30434

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 gcacacgcag ccccgccgcc atcccgattc ctccgtccgc ttcccctccc cgggtccccgc 180
 gcccgagcc cccgccgcca tcccgattcc tccgccgct tcccctcccc gcgcccgcgg 240
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 ggaggacgag atcgagatgg ccgtgagcgc gaagaagcaa aagcggcgc caccggcgaa 360
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<210> 30435
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-A12
 <400> 30435

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 ctttggcaat cgccgtgca actgcaaccc atgccatgcc ggcttagtga ttgggtataa 240
 tttggcttgg cagcagccag cattattatg tgctgatctg ttatctttta ctagtttgg 300
 cgtccgatat ctttctttct ttttcccccc ttttcgactc tgtactgaaa ctgctgagag 360

attcgcagta ttgttgatc gtattcatat gctactgtt

399

<210> 30436

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G5

<400> 30436

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gatgcaacat tctggagtag gctaatacag ccagatcctg cagatattat tcaggaaact 120
ttggcgccctc gtgctgcacg taataaaaag agttatgttg aagatcccca gtttgacaaa 180
aataataaca ggaaaagacg tgcagttgaa gcacaagaaa agccaaggag gcgttctggc 240
agaacagtgg aaacagttaa ttcagtacca ttggttgatg gagcagtagc tcaagtacga 300
gagtgggtctt ttggtaatat tccaaagaag gatgcttctc gttttgtacg agcggttaaa 360
aaattttggg aatgcaaccc aaattgactt a 391

<210> 30437

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G6

<400> 30437

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actccgcccc cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180
agactgcgag gttcaaggag cttcctcctt atgatactga ctggtactac atcagggetg 240
catccattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 300
tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360
ctgttgacag caacatcctg cagcagctgc agattatggg catcatcgat gtccatccca 420
agggtggacg cc 432

<210> 30438
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G7

<400> 30438

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 tcaaatacat aaacttaaat ttcccaatag tagttccttt tttattatat ctgagagcat 180
 agtagctctt tcgctaatac atcgatcacc cctatactaa tttctcaggt tggagcagca 240
 gattatatag cactagctag gaactaccat acaattttca tatcagaaat tccagcgatg 300
 agtatgaaga ttctgtgaca ggcaagaagg tttatcactc ttatcgatga gttgtacaac 360
 caccactgcc gccttatatg cctagctgcc tcatccattg atgatctttt tcaaggaact 420
 gangaaggac ctctttttga ttt 443

<210> 30439
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G8

<400> 30439

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 aagggtgcggg tgaagtgcaa cgaggacgac accatcggcg acctcaagaa gctggtggcg 180
 gcgcagacgg ggacgcgccc cgagaagatc cgcattccaga agtggtacaa catctacaag 240
 gaccacatca cgctcaagga ctacgagatc cacgacggga tggggctcga gctctactac 300
 aactaggcgc cctgacccca accgtgccct gatgtaaggt taatccgaat tctgaagtca 360
 tgggtgcgct tccagtcaca gcgtctntag ctaacaagct cgcatacata taggcaactt 420
 gagtgagcta tgtag 435

<210> 30440
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H1

 <400> 30440

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 cccacgccc agctccccgt gctgctccag tgaggaaccc gccacagcca gcacgccagg 180
 ctctctctcc agctcctgtt cgagatgggtg gtggctccat gtttggagga attgggtcca 240
 ccattgctca aggtatggcg tttggcacgg gtagtgccat ggcacacagg gctgttgatg 300
 ctgtattagg tccccggacc attcagcatg agactgttgc ctcagaagct gctgctgctg 360
 cccctgcccc tccagtgatg aatgctgatg cttgcagcat ccattctaag gctttccaag 420
 attgtctcaa caactatggc 440

<210> 30441
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H10

 <400> 30441

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 gttcgcgccc ctgaaattgt ccgaccgctt ggcgactcgg gtcggacgga tgccggctga 120
 cgtcgaggcg gcgatggccc cgcccaggc ggcacggcc tgcagctcgt cgtcgatagg 180
 cagggacagc gacgagtgtt cgccgccggg gaaggaggag gaaggggagg gggagggtga 240
 gagcgcgtac gagggaggag gagggggcag cctcgtcggg ttggaggcat tggaggaggc 300
 gctgcctatt cggcgagca tatccaaatt ctacaatggt aaatccaaat catttgtgtg 360
 cctgaaagaa gctataacat tttcaggctc tgcataagac attactaagt cagagaatgc 420
 atactccaga taacggaaga atc 443

<210> 30442
 <211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H12

 <400> 30442

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 ggatacgggt gcgcgggctg cggcgccgcg cggacgcgac cggcgaggag atcctgcgcg 120
 gcgtccacct cgacgtgccg cgcggggccg tcatgggct catcgcccc agcggcagcg 180
 gcaagtccac gctgctccgc gcgtcaacc gcctctggga gcccgcgccc ggcgccgtgc 240
 tcctcgacgg cgccgacatc tgcgccctcg acgtcctcgc cctgcgccgc aaggtcggca 300
 tgctcttaca gtcccccgcc atgttcgacg gaaccttggc tgacaacgta cgatac 356

<210> 30443
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H2

 <400> 30443

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 gctggagtct cttgaagatt cagacagcaa aaaagaagat tagtccgaac ggcgaaccgt 120
 cacagccatt gttcttgaag ggacaaagtc ttaatccttg tatgaggttt acatatggat 180
 tttccctgcc acatgcacac cgattcagtg cttggatggg gagggttttg acataggagt 240
 gttgtcaaag ctttagagtg catctttcgg tcagggtgtaa cagcctttcg gtcattgaga 300
 catataaacg aattagctat t 321

<210> 30444
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-H3

 <400> 30444

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 aaccaaacat aagggtcggg tttttcaaca atttaac 97

<210> 30445
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H4

<400> 30445

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aacggaggct ctcccacatg cataggagta actgccaggg ttccttcctg ggggtggaagt 120
gtggaactga gcttgaatgt taagaagtgt tcctttgttc tcttcctctc ttgatgactc 180
tgtaaatagc tatgtcaatc tggttaagtt tggtttggtt gcatgtgcct gtgttcgctg 240
ccctttggat agaatgcaaa ttaaagatgt tgctattgca caaaagaaac caactttacc 300
aaaaactgaa gcataataaa gttttacagt ttttgagcta ataaaaaaaa agggcgccct 360

<210> 30446
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H6

<400> 30446

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gactcaacgc gactggggag ttcttcctggc ggagggacga gtggaggagg caccctatgg 120
cggggaacca gctgcgccac gccacacccg ggctcggcat cgccatcgtc gccttcggga 180
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ctggtgctgt tgatgttttt acagttttga gctcataagg tcagccatga ccatattgta 360
atctgtgacc aggtagactt gccactgggt ccgtccaact a 401

<210> 30447
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H7

<400> 30447

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gtgagggttct tcggattcac acgaaaaaca tgaagcttgc tgaagatggt gacttggagc 120

tcattgcgaa ggatactcat ggttatgttg gtgctgatct tgctgccctt tgtactgaag 180

ctgctcttca atgcattcgt gagaagatgg atattataga tcttgaggat gagacaatag 240

atgctgagat actgaactct atggctgttt caaatgatca tttcaagact gcacttggga 300

caagcaaccc atctgctctg cgtgaaactg ttgttgaagt gccaaatgtc tcttgggaag 360

atattggtgg cctggaaaat gtaagaggga gctacaagag actgttcaat atccagtga 420

gcattcagag aaatt 435

<210> 30448

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H8

<400> 30448

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gaaggcgcgc tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa 180

acaagtacaa tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag 240

cacaaatcat ctctgctagt atagcacgtg atatggttct tgcttctgct tactcgcatg 300

agttgccacg atatggtctt gaagttgggtc tgaccaacta tgcagctgcc tactgcactg 360

gccttctgtt ggctcgccgt gtgctcaaga cccgtggttt agataaggaa 410

<210> 30449

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H9

<400> 30449

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aaaaaaaaaa aaagagagaa atacacacaa accaacaaga caaaacaaaa caaaaaaaaa 120
 aaaacaaaac aaaaaaaaaa caaacacac acacaaaaca aacaacaaaa acaacataaa 180
 acatacaaaa caaaaacaaa aacaa 205

<210> 30450
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-G4
 <400> 30450

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 ctgcaatgtc atgacctaca agcctgagtt caccgaccac ctcacgcaca agctgaagca 180
 ccacccctga cagatcgagg ccgccgccgt catggagcac atcttggaac gcagctccta 240
 catgaagctg gcgaagaggc tcggcgagct cgacccgctg atgaagccga agcaggacaa 300
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<210> 30451
 <211> 61
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-051-Q1-K1-A10
 <400> 30451

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 c 61

<210> 30452
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-E6
 <400> 30452

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 caccaagaac tgcgatttcc agatggagcg ctatgccttt aagcgccgca ccgacggcat 240
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 tgccatcgag aaccgcgagg acatcatcgt ccagtcggcc cgcccctatg gccagcgtgc 360
 tgtcctcaag ttgcgtcagt aactggcgc tcatgccatc gctgggaagc acaccctg 419

<210> 30453
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E7

<400> 30453

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 taattaaaag gttgaatgta aattcgttta atgctgatac cagttctgat gatttttcta 180
 ctggttcctc cgattctgga ggccagtgcg atttctgcaa ataaataagc cttctggtga 240
 agcaatgggt cttaaaaaaa aaaaaataat aaactaaaac taaaaaaaaa taatatataa 300
 aaaataataa aaacaaaatt atataat 327

<210> 30454
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E8

<400> 30454

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 gggcgatggc ccggctatcg gcacgatctc cggcacgacg tactcttgcg tcggcgtgtg 180
 gcagcacgac cgcgtcgaga tcattgccaa cgaccagggt aaccgcacca cgccctcgta 240
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gaaccccatc aacaccgtct ttgatgccaa gcgtctcatc ggcaggaggt tcagtgatgc 360
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<210> 30455
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-E9
 <400> 30455

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<210> 30456
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-F1
 <400> 30456

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 ccaacgacga gcatccgggt tagagaggaa gaaattgcaa ccgaaacaat ggccggcagat 180
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 gaac 424

<210> 30457
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 30457

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cgcccgcatg gccaaaggcca aggagcaggg caagctgggtg gtcatcgact tcatggcccc   180
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taccgtcgac gaggacgagc tccgggacgc cgtcaggaag tacgccgncg ctggcactac   420
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<210> 30458
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-F12

 <400> 30458

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gcatttcgat ccacatcggc caggccggta tccagttctg aaaccctgac tggcatctgc   180
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<210> 30459

<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F3

<400> 30459

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caacattgag cacttccgca cggataagtt tgggtatgca gatgttggtg aggaagtctc 180
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gagttactgc atcaag 436

<210> 30460
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F4

<400> 30460

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aaaattaatt tgacatctg 439

<210> 30461
<211> 361
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F6

<400> 30461

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ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tctcgcactc 180

caaggtcatc accgaccggg agacggggag gtctcggcgc ttcggcttcg ttaccttctc 240

ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300

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t 361

<210> 30462

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F7

<400> 30462

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tgggccagct atcatgtatg cttgatactg accacttacc cttgaatcta gcggcgcttt 120

tggtgagagg gtgcaattta ctttaaacad ggctcgtgac ttgctgtaaa tagtagtatt 180

aatcgattcg ggcattctagt aactaaatta aggggtgtgta tggttaggct tttgatttct 240

aaacgacaaa agccaaacta aagagctgga tccataaaat agcattttct aaaagtcaga 300

ctttgtggcg gtacaaaaaa aaaaaaata ataattattaa taattataaa aaaaattata 360

ttaaataata tatatt 376

<210> 30463

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-050-Q1-K1-F8

<400> 30463

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ggaaggaagg aatgggtggt ggtgggtccc atgctgatcc attcgacatt ttctcatcat 120
tctttggacc ctcttttggg ggaggtggtg gaagcagcag gggaagaagg caaaggaggg 180
gagaagatgt agtccactca cttaaagttt ctctggaaga tctttacaat ggaatctcaa 240
agaagctctc tctttcacgc aatgtcatct gctccaagtg caagggcaag ggctcgaagt 300
ctggtgcttc aatgaggtgc cctgggtgcc agggctcagg tatgaaagtc accattcgcc 360
agcttggggc ttccatgata cagcagatgc agcagccttg caacgagtgc aagngactg 420
gggagag 427

<210> 30464
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-050-Q1-K1-G1
<400> 30464

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gggggtcggt ccgtgaccta tgaggagctg cgagaacgcc ttcaacgccg cattactgtg 120
cttcgaggca accggtgcac caggcctgag ttcttgaata agcccaggaa ggagaagggt 180
aagaagtcaa aggcgaagaa tgaaaagaag ggcaaagggt agggcatgaa gcgtaagcgt 240
gatgatggca ccgaagatgt ggatgtcaag gatgggaaga aggtaaagaa ggaagctgag 300
gagaagccag atatcatgta cgcaaattgtg tttgttgacc caaaggaagc aaggcgcaag 360
aagaagagga gggttaagaa caagaagaag gcactggagc aggctaaacg gttgcaggaa 420
gcaaagaagg atcc 434

<210> 30465
<211> 154
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-050-Q1-K1-G10
<400> 30465

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gccactgttt aaacggaaca aataatgatg ttgcatgtgg ctatcttttag ttatgtggta 120
 cttgacgttg aataaccggag ttgttgttta tcag 154

<210> 30466
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G12

<400> 30466

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 aggtccggag tgcacggaat tttcttctaa aacaatacgc cggatatgaa gaaagtgaag 180
 aggccattga aggtgcttat gacaagataa taatgaatag ctacacagac cgtaagaaat 240
 ccaaattcaa tctgaaaagc aagctaaaag agcaagttga aggatcccca tcatggctta 300
 aggcaactgct tggatatttt gaggtgccat cactagagat catttcaagg agatttgcct 360
 tttttgcgtt ctttgccggg tggagcattg caactttctgc tgagactgng cctgcctttc 420
 agcttgcgat gtcactcgcc tcatgcatat a 451

<210> 30467
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G2

<400> 30467

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 gtgacatcaa aggggtggaga tgatgagttc tcagagctat atacattcaa atggactacc 180
 ttattgatac ctctaccac ctgccttcta ttgaacttca ttggtgttgt tgttggcatt 240
 ttgggtgatt gcattacctc ccgaggcact gaggtcgttc tcaatttatt tggtagtggt 300
 gacttgatcc ttggcggcaa cccctggact ggtctttgag ttgcagcaga gcgttgtcac 360

taggaacgcc atgatacacg agtatgctg cgacaacgcg gaggtcagg agtgggcgtt 420
ggagttggt 429

<210> 30468
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E5

<400> 30468

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ggccttcatg ggggtgctca tcttcttcgc cctccagaac gcgcaccacg agtcaagtg 120
gtggggcacg gaggtggatc attgcccgtc cgctcctgc cccaccgcgc cgggcatcgc 180
cgtcaagggc tgcccgggtg tctgaatctt ccgagacctg agcgtagtaa gcagtgtgtg 240
taacagtgtg aggaaatggt tgctacggga gccatggatt caaccaagca tcgattaacc 300
gatgcagtgc tttgtcactc gtgaatgtaa caccatagcg ccagtgggtg attcagattt 360
c 361

<210> 30469
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C3

<400> 30469

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caaggagcat gcggaggagg agctgtgcca agccacaatg ggtatctcac gcgactcgat 120
gcacaagcgc cgtgccaccg gtggaaagca gaaggcctgg aggaagaagc gaaagtatga 180
gcttggtcgc cagccggcca acaccaagtt gtcaagcaat aagacagtga ggagggtccg 240
tgttcgtgga ggtaacgtga agtggagggc tcttcgcctt gatactggta actactcatg 300
gggaagtga gctgttacc gcaagaccgc tctcctcgac gtggtctaca atgcatcaaa 360
caatgagctt gtgaggacac aaacccttgt gaagagtgcc attgtgcaag ttgatgctgt 420
cccatc 427

<210> 30470
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C5

 <400> 30470

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 gttcatctgt aaatttcaat cttgttcaag aagaatgata atatattggc atgttttttc 120
 ttagcagttg tataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 180

<210> 30471
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C6

 <400> 30471

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 gacttcatgc tttcgtccta cgctccagtc atttctgctg agaaggccta ccacgagcag 120
 ctgtccgtgg ccgaaatcac caacagcgcc ttcgagccat cctccatgat ggccaagtgc 180
 gacccccgcc atggcaagta catggcatgc tgcctcatgt accgtggtga tgtgggtccc 240
 aaggacgtga acgctgctgt ggccacaatc aagaccaagc gcaccatcca gttcgtggac 300
 tgggtgcccga ctggcttcaa gtgcggaatc aactaccage ctcccagcgt cgtccccggc 360
 ggtgacctgg ccaaggtgca gcgtgccgtg tgcattgatc ccaactccac cagtgttgtg 420
 gaggtcttct ccgc 434

<210> 30472
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-C7

 <400> 30472

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gtcgccgccc acgtccgccc cgaggtcgcc gccgatgtgg ccgcgctctc gtcggccccc 120
ggactcgtgc cggggctggc cgtgggtcatc gtggggagca ggaaggactc gcagacgtac 180
gtgaacatga agegcaaggc gtgcgccgag gtcggcatct gctccatcga cgtcgacctc 240
ccggaggaca tctccgagac cgcgctcgtc gccgagggttc atcgctcaa cgctgacccc 300
gccgtgcacg ggatccttgt ccagcttcca ctctctaagc atatcaacga agagaagata 360
ctgagcgaga tttccatcga gaaagatgtg gatgggttcc atcctctcaa cattggcaag 420
cttgcaatg 429

<210> 30473
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-D1

<400> 30473

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ggatcacaag aaggctgggtg ccatgaatgc actgggtccgt gtctccgctg tcttatcaaa 120
tgctgcatac ctactgaact tggactgtga tcactacatc aacaatagca aggccataaa 180
agaggctatg tgtttcatga tggatccttt ggtggggaag aaagtgtgct atgtacagtt 240
ccctcagagg tttgatggta ttgacaaaaa tgatcgatac gctaacagga acgttgtctt 300
ttttgatatc aacatgaaag gtttggacgg tattcaagga ccattttatg tgggtactgg 360
atgtgttttc agacggcagg cactgtatgg ntatgatgct cctaaaacga agaagccacc 420
atcaagaact tgc 433

<210> 30474
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D11

<400> 30474

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taacaccaaa cctctaaacc atatacatct aaaacacctc caaccacaac accctccaca 120

aacccaacc ctaccactac ataaacac

148

<210> 30475

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D12

<400> 30475

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagac aaacaaaata 60

ggga 64

<210> 30476

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D2

<400> 30476

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ggagcgaaca agcagcagtg taaatcctct tgagtctgca cttgcacagc tgtcattctc 120

tgaagcacc tctgcaccaa atgtgtcagc ttatcctgtt tctcttgatc ccactttgaa 180

agcaaatgat ggaggacatt catctgtgct agaccagtca cattccttgt ttgatgcgcc 240

ctttggaatc tcaggcaacc aggcctcaac agtaatgtcc ggccaaggat catcagttca 300

acaatctcct ctagctgccc caacagctgg acctccatct caagctactg caaatccaca 360

aggaaccagt ggtattcaag gagcagcctc ttctactgac agtaaattct gtagcaggaa 420

agaacttcca gcggata 437

<210> 30477

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D4

<400> 30477

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ggaagaagcc tgtgatgaac gaatgaatat ctccagaagc tttgttcaat gtgcaaccaa 120
 gtccgatgtc cgtctgctct ggtcagctta aaaccaacgc ttccaataat cctattggtg 180
 tcttagtttc cccttatagt gttatttgct cggcttgaac atggcaacgg aaatgaaact 240
 tgaactatgg tactgtcatc aatttgagac ccccatgatt gac 283

<210> 30478
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D6

<400> 30478

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 gaggtcttat gatctaaagg gatcttcaag gtcaaggat aatgcagatt caaatggtag 120
 caacaagggtt cttcttgacc agaacttaat tgaagcaatg ccaacttcac cgatttttgt 180
 tgggaacaag gcaaagcggc tactggaaaag agctgtttgg aacgatacat ctttcctagc 240
 tggaatcgat gtgatggact attccttgct tgtgggagtc gacgaggaga aacatgaact 300
 ggtcttagga attattgatt ttatgaggca gtatacatgg gacaagcacc ttgaaacatg 360
 ggtaaaatct tct 373

<210> 30479
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D9

<400> 30479

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 gcatccacga ccaccgccgc cgcctccagc ggtggggtca ctttcaagct ccaccgcgtc 180
 gtcacgtga acgtctccga ccaccacacc cgcgtcaagg ccagggccgc ctgctccggg 240
 gacagctctt cccctcctc gtccgccccg ggggcccggc agccgccgag ggtgttcggg 300
 tgcgtgatcg ggggtgcagc cggccggacc gtggagatct tcaacagctt cgagctcgtg 360

ctcgaccccg tctccggaac cctcgaccgc gccttcctcg acaagaagca ggagctctat 420
aagaagggtgt tccccgactt ctacgtgctc 450

<210> 30480
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E1

<400> 30480

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ggtggctcgt ttgcttcaga agaaagtata tgttgagct gcaaagctgc aaatactgaa 120
acatttagag cttcctcagg agattatgca ctggtttaca gccaatgaag cagaaaagtca 180
catacatgtt gtcccatgt ggactctagc aagcttcaag cggatgaaat atctatcgaa 240
tcaatatgct ggccggtatg accttatagt ggcgttttgt cctactgggtt gggcatttgg 300
caaaggtagg aaaaagacac caggcaaaag gtggcaacaa ggatcaatca ttagatatga 360
agtgccttac agtgaacaca gcagtttcac ggaactgcag cagtttgtca agttcatatc 420
accagagcac a 431

<210> 30481
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E11

<400> 30481

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agctggagga gcttatgtca tgtgcagttg ccgcatgcgc caatgctcct gtgtttgtaa 180
aggtcggagc tgagggtgctg cggctatcat ctgggtccgc gataagttaa ttgtactgat 240
agttgatatc taactactat tttgtgtatc aaatgaaaat gttggaacta aaggatcgga 300
tggtataggt gtcttatgaa cctgttctgg ctggcaaaat taaccagaaa tatggatttg 360
ccaaaaaaaa aaaaaaaaaa ataaatataa aaaaagaaca atatatataa a 411

<210> 30482
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E2

<400> 30482

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agcagaagaa aatgcaacgg gcagtgcagg ccgtcaggtc acacggcaat gttcttaaata   180
atgctgttct acaacacatc agcgtccca agccagcaat gcttcctgct gccttttctc   240
gtttcatgtc agtttcatct gtcgcctag aggatcgtgg atttgaaact gccactgtag   300
cagatgtctt gaagtctaaa gggaagagtg ctgatggatc ttggctctgg tgcaccacag   360
aggatagcgt ctatgacgct gtcaaata tgaactcaaca caacgtggga accttggggg   420
gttgtcaaac                                     430
  
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<210> 30483
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C2

<400> 30483

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tcgaccaacg tgaacctgga gggggtggac accttcgcca tctcgtcga agcctgcaag   180
ttcgtagcca acatcatcgg tgagcccgag gtctacgcga tggttgttct caagggttct   240
gcgcatatgg catttcgagg ttcccatgag ccacaagatt acgcgcagct ggcttccatc   300
ggactgctga accctgagtg aacaagaggc ttaacgatga atctgctata tcct       354
  
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<210> 30484
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E3

<400> 30484

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gttgcaggtg gtttgagtcg cgctacacgc tgtacatacc ttttg 105

<210> 30485

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E4

<400> 30485

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cgcgaaagcg caccggaagg tgctccgcga taacatccag gggatcacga agccggcgat 180
ccggcggtcg gcgcgcaggg gcggcgtgaa gcgcatctcc gggctcatct acgaggagag 240
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gcacgcgcgc cgcaagaccg tcacagtcac ggacgtcgtc tacgcgtca agcgccaggg 360
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cgg 423

<210> 30486

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A8

<400> 30486

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ggggtccgcc gcgtcctcag gatccaccac aaccgcgcgc cgctggcccc cttcgaggag 120
taccgcgacc tggtcgcgc ccgggccgcc cggcgctgcg gcggcgaggg cgccgtggtg 180
gaggagcgct gcatcgcgga cggcaacgag cgctgcgct tccactgctc caccatgctc 240
tgctccctgg gcggcggcgt gtgcgggagc ccctactgct gcgtgtgcag caccctgcgg 300

caccggegac gacgtcgagc tgctggtgta caaccccaga gcagtgtctcc cgtgctttgt 360
catcctctac agcagcagct agtcggtggc atgaca 396

<210> 30487
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-B1

<400> 30487

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cggtctgcctc ttcaactcgg gcgtgatggg gatcgagccg tcggcgtgca cgttcgacgc 240
gctcatgcgg gggcgccgga ccgtccgctc ctacaacggc ggcgaccagg ggttcctcaa 300
cgaggtgttc gtgtggtggc accgcctgcc gcgcggggtc aactacctca agaacttctg 360
ggccaacacc acgngggagc gcgcgctcaa ggagaggctg ttccggggcg acccgnccga 420
ggtctggtcc gtccac 436

<210> 30488
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B11

<400> 30488

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gattgttaat tttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagacaaat atataaatta caaatcttac 180
aacaacaaaa aacaataat tagattacca taaataaaaa cacaatttaa ataatttaca 240
actttattaa ctaataaatc atattatgaa aaccaattaa ataaccaaat aaaaatttat 300
tatactctac acaattttttt aaaata 326

<210> 30489
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-B12

 <400> 30489

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<210> 30490
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-B2

 <400> 30490

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 gtctattggc ggggagtact ttatgtaaat taccaatcca aatttattat gaggatatca 120
 ttgtcaaag ataaatacca agtaatcaag ccacctgtag attttgaatg gtttgaattt 180
 gaaaatgaat ccaggctatc caaaaacctt tatttgggaa aatcagagaa aggggtgtac 240
 tgtgctttgc gttatccgtc aaccgtttcc ttttcgattt acattctcga tgaatctgac 300
 ggcaaaacgg agtggataat gaagcctcac tattatctcg ggagtcaagg aatngacggg 360
 cctggaccct ggactctaca ggatatcaac tataactgtg acac 404

<210> 30491
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-050-Q1-K1-B3

 <400> 30491

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 gactccggct gcggcgcggc gtgctagatc gctaccgacc atggtggtgg aggagatcgc 120
 cgaggggggtg aaaaacctca ccgttacggg agatgcgggc gcttcaggcg gagaggggca 180

gaggaggggc ggcggcgcca gcagcaaccg catccaggtg tccaacacca agaagcccct 240
 cttctttctac gtcaacctcg ccaagaggta tatgcaacag cacgacgatg tagagctatc 300
 cgctcttggg atggccatag caacagttgt gaccgtggca gaaattctga agaacaatgg 360
 atttgccgtt gaaaagaaaa ttaggacctc tactgttgaa ataaacgacg aatcaagagg 420
 gcgtccattc caaa 434

<210> 30492
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B4

<400> 30492

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 actacagcgg ctggtaagta attaatgacg gtaatttccc tccccgatgc tcgctcctgc 180
 ctgcagcaac agctctctca ctctctccgt ttgtcttttt tctgtcctcg aaagggtcgg 240
 cgcggaagcg gagtgggaaga tcctgtacag tctcggcaag gacggggacg gcctcctccg 300
 caaggacgtc gcgaggagcg tctacgacgg gacactgttc caccggctcg cgcccagatg 360
 gaaatctccc gacagcgaca tggagagaag ctgataagcg tgggtccggga gaacctgaac 420
 cggtctggac atg 433

<210> 30493
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B5

<400> 30493

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 tgatcgtcac ccatggccac tgccgaggtc cagaccccga ccgtcgtggc gaccgaggaa 180
 gcgccggtgg tggagacccc ggtccgccc gccgtcgtgc ccgaggaggc tgcccccgcc 240

gccgaggcca aggtggacga gccagctgcc ccggcggaga ccgagccagc tgccgccgct 300
gagccccgagg cggcccccggt ggccggcgag gaagagacgc caaaggagga agagacggca 360
aaggaggcgg agccggagcc ggagccggcg gcggctgaag aggtgaagga ggaagcggca 420
gcgccccgt 429

<210> 30494
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B6

<400> 30494

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gggctactgc ggaaagtaca aggatgagct catcaagaat gctgcctaca ttggcacccc 120
cggcaagggt atccttgctg ctgatgagtc cactggcacc attggcaagc gcctttccag 180
catcaatgtc gagaacgttg aggagaaccg ccgtgccctc cgtgagctcc tattctgctg 240
ccctggtgct ctccagtaca tcagcgggtg gatcctcttc gaggagacc tgtaccagaa 300
gaccaaggat ggcaagcctt ttgttgatgt cctcaaggag ggaggcgtcc tccttggcat 360
caaggatgac aagggcacca ttgaagtgtg tggcactgat aaagagacca ccaccaatg 420
ccatgac 427

<210> 30495
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-B7

<400> 30495

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ggagccagtg cttcttggtg gtaccctgca ggataacttc ttggccagct tcttgctcgg 120
gtgggggtata accattggtg ctggccttgc ctctacccc attgacactg ttcgccgtcg 180
catgatgatg acatctggtg aggccgtcaa gtacaacagc tccttgagc ctttcaagca 240

gattgtcgca aaggagggtta ccaagtcctt cttcaagggt gctggcgcaa acatcctccg 300
 cgctgtagct ggtgctggtg tccttgctgg gtacgacaag ctccagggtg ttgtcttcgg 360
 caagaagtac gggctcgggtg gtggctaagg atgtataatg atgatgacga cgaacaacan 420
 acatgatggtt tt 432

<210> 30496
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B8

<400> 30496

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 ggatctggtt tctaccgact tccttggtga cagcagggtcg agcatcttcg acgccaaggc 120
 cgggatcgct ctgaacgacc acttcgtcaa gcttgtctcg tggtagcaca acgagtgggg 180
 ctacagcaac cgcgtcgctg acctgatccg ccacatgttc aagaccaggt agagggtttt 240
 cccctgctt ctcatggatg gttgctgctt gtgtatgccg agaataaatg tggatgtcgc 300
 caggttcatg ctgagtctgg acatgttttg cacttttggt tccatttctg ccatcatctg 360
 tggcagatcc gctcgctaat atgggacctg agattagctg tttgctgctt gtggtgaggt 420
 tgcagttttg tt 432

<210> 30497
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B9

<400> 30497

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 ccatttcgaa gatttttttt cacctgagct tgacaaacat ggatatcagg cgctttacaa 180
 gaaaaggaca acagagggtg attctggaaa tcctatggcc atagatggat gtgctacttt 240
 ttttcgtaga gacaagtttt cacatgttaa aaaatacgag gttgagttca ataaggctgc 300

acagtcttta acagatgcta ttattcctgc tgcccagaaa agagtggctt taagtcgatt 360
gattaaagac aacattgcac taattgcggt tttagaagcc aaatttggtta atcatggagc 420
tgaaaatcct ggtaaaagac agtcctttt 449

<210> 30498

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C1

<400> 30498

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gggagttgta tggaagaggt ggcaactcta gctgctcttc tgcctttgag catgtgtttg 120
ttggtgagat caaaggacgg ggacaagggg agagtgaggt atcaggcttc cataactgga 180
ttcagtttta cctggaagaa gccaagggaa atgtggatta ccaaggttat atatttccaa 240
ggcgccgtgg tgaatcgctt gattcagaga tacagctgct gactgttcag tttgagtggc 300
atggcggtgct gaaatcggtta tccagcacgt tgattggcgt cagtcctgag tttgaggttg 360
cactctacac gttgtgcttt tttgttgag gggaagataa ccgctcgat attggcccg 420
atagtgtgaa cgtca 435

<210> 30499

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C10

<400> 30499

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agacattttc aataaatgga gaggacctct tttaacgtta ttac 104

<210> 30500

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C11

<400> 30500

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gagcagcaga ggagcttcgg cagacacttt gatatggaag atgagcttgt cagccggata 120
tcaagaagat ctattgatat tttgaaacag aactacaggg aggatttgac aactgaagac 180
tggaacttg ttgtaaagtt gaaatcaata ttgaagatac aatgaaaagc cccctcccct 240
aacacacctg cccatgaatt tgggagttgt ggttctgtgg cgccacacct atctctagtt 300
ctctacaccg gagttcccca gggaggggta ccaattttga tacgggttga tttttgtaat 360
ttgctcggaa ggcgcttcat tttacaacca cattccgtaa taacataata ttttgtgttt 420
gtttctgtac ttttcatgaa ctctgaag 448

<210> 30501

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A7

<400> 30501

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaagcc gccccctttt aaaaaccccc atcttttaaac cctcgtcaac 180
cactctttat ctcttttaat atgtcccca aattaaaaat ccatccccct tcacataaaa 240
actcactaat tcaaaaaccc cttact 266

<210> 30502

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C12

<400> 30502

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gaagatgtcg tacctgtgc cgcactgca ctcgggggtg gcggtggacc aggccatcct 120
cgccgaggag gagcgctcg tcactatccg cttcggccat gactgggacg agacctgcat 180

gcagatggat gaagtgctag cagcagtagc tgagaccata aagaactttg cggatcatcta 240
 ccttggtgac atcacagagg tccctgattt caacaccatg tatgagctgt acgacccttc 300
 gacagtgatg ttcttcttcc ggaacaagca catcatgatt gatctcggga ctggaaacaa 360
 caacaagatc aactgggccc tgaaggacaa gcaagagttc atcgacattg tggagaccgt 420
 atacaggggc gcccggaag gccgtg 446

<210> 30503
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-H12
 <400> 30503

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 aagtggcgac aaagctgcgg acgcagtggg agcagttcgt gcaggcccg cagttctgga 120
 gcggcctgga cctgggagtc ctgcagctcg aggtcaacag gatggcgagc atcctagaag 180
 cagcaggaac ccgaatcggg tcgtcggcga cggcctacat gctgtcgtgg ctgtcgagct 240
 accagatgca gcggccgacg gccatgggct cgccgagcat cgtggccgcc gcgttcgtca 300
 ccgtgaagat gcagttcacg ctgcagcagg cgaccatcgt caacactcgt ccaccacat 360
 gcatcggcgg ctgcccggcg tgcgagtgcg ggtgcgagga ccgctgcgtg cagccact 418

<210> 30504
 <211> 144
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-H3
 <400> 30504

cccacgcgtc cgaccacgcg ttcgaaaaaa tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa ataa 144

<210> 30505
 <211> 466
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-H4

<400> 30505

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gtgacaaacc ctgtcctatc cgtctccctt cgggcgcgtg ttacaggtgg ccacaggctc 120

gcctcccgtc tccgggtccg ccgcgtcggc gccgcgcgtg ccagctccc caccacgaat 180

ccggaggtag cttctgggga gaagaagatc agatggtcac caagggctgt gcggtctttt 240

gcgatggcag agctggaggc ccggaagatg aggtacccta ccacaggcac cgaggggctc 300

ctcatgggca ttcttgttga aggaactagt ggcgagcaa aacttttgcg tgctaattga 360

accacacttc tcaaagtgcg tgaggaggca gcgaatgttc ttgggaaatc agaaatgttn 420

tacttttagtc ccatgcattc accattgaca gaagctgcac aacgag 466

<210> 30506

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H5

<400> 30506

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tcctgcaacc gagcggctcc ctggcgacg cttgcttact gcgcgtgctc gacggacgga 180

gctctctagc gcgctcgccc atgccgcgcg cagccaagct agacctgcac gtacatctga 240

ctgctctagc tatgacgcca cgctagctcg cctggctga gatacggcgc ttggcgctg 300

attctctgac tctgtacctg ctgcaaagg tttttcagtc cgggccctgc ttgatggaac 360

tcgacccggg ccccttatgc atgcacggct taacactgtg cccggtacta agcagtgtt 420

cgtagaagcg tgaacttaac tcggtct 447

<210> 30507

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H6

<400> 30507

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gaagaactac tacttcctat attcaatacc agatgaaaat gtgcaggaga taaagatcag 120
tccaggaatc atgctcttga tatacgacag aacaccaagt tatgtcccat tgaagatatt 180
atctattgaa gatgggaaac aactgaaatt ttttaagcac ttgttacatc gcaacaagaa 240
aattgatttc attgagcagt tcaatgagaa gctccttgtc aagcaagagg acgaaaactt 300
ccagatactt gatgtgcgga gttctgagct aattgaagtc aatgtctcca agtttatgac 360
cccttcagca ttcatttttc tttatgagaa caatctcttc ttgacattcc gaaacagaac 420
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<210> 30508

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H7

<400> 30508

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gcggccatta tcttacacca catgccatat agagttaagt atataatagt ctatgggtga 120
gaaagtgcac atatggaacg ctgtatatag aggggggtca agaattctaca gagcaactca 180
tactctgtga tctacaaaaa aaaaaaaaaa aaaaaataat aaaaaaaaaa aaataataaa 240
tataacgatt tatttttaat ttaattatat gaacaaactt ttt 283

<210> 30509

<211> 319

<212> DNA

<213> Zea mays

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<400> 30509

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gaagaaaata aaaaaaaaaa aaaaaaaaag gacaaccaag tggatcggtc ccctgctggc 120

tcccactttc ctcccgcgtg cttgcttctt ctatcgctcc tctctaagtc caacctaatt 180
tcaattcatt tgtccgcttt ttacatggt aaaacctggg aaaaccctg cttacccac 240
ttgaatcccc ttccactttt tccccctttc gccatttcgc ttagtcccga acaggtcgcc 300
cttgatagcc tttcccaac 319

<210> 30510
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H9

<400> 30510

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attccaagta cttttgcgag ttctgtggga agtttgctgt gaagaggaaa gcagttggaa 120
tttgggggtg caaggactgt ggaaggtga aggctgggtg tgcttacacc atgaacactg 180
ctagtgcggt caccgtcagg agcacgatcc gccgcctgag ggagcagact gaagcatgat 240
atagctcttt atattattgg ggtttcctgt agttgctctt gtcaggcatg ttgtgggggc 300
cttctctagt ggaaatgtgg aatcactgta ctggctgttt tgccgagaca atgctcctta 360
tatttggttt atgctctagg atctcaaagt tgtggtgtta agatttgccc tcggttaccg 420
ttctgaatct gacaagtgat atttgatcct at 452

<210> 30511
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A10

<400> 30511

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tgtgtgtgtg tgcagttgtt gcaattaccc gcagttaaga ttttaagtta acattttctt 180
ttttttcatt cttacgttgt agatgtgtca ttgaaattat gtgggttagaa ggtggagtac 240
ataactgtgt gtgtatttat aatagagggt tacttcattg aatcaagcta gtgtgaattc 300

tac

303

<210> 30512
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-050-Q1-K1-A11

<400> 30512

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tacaggaagc agggaccttc tctgcagggt tgcgattcgg ctaccgaaca accggaggat 180
ccaaagaaac ttccttcaca cagatcctat caagctcttg tggtcattct gcgctcctca 240
ggtcgaggac ggngagagga gggctttcca ctctgtccag gcaattcctg gggcatccca 300
gaaactggag ttgggaagcg acctaacatt caaggaagcc gggctggcca actcgatgat 360
c 361

<210> 30513
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A12

<400> 30513

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gtggccccggg gaatggactt caaagggtgtc gcctgtgtga taaactacga ttttccagag 120
tcggctgctg cctatattca caggataggg cgatccggaa gagccggtag gtccggggag 180
gctatcacgt tcttcacaga ggaggacaag ccattcttga ggaatatcgc caacgtgttg 240
gtatcttcag gctgtgaagt gccttcctgg ataatggcac tgccaaagct caagcgaaaag 300
aagcacagag tggatagga cccaatctcc tacctacctg acgaagtttg agagcg 356

<210> 30514
<211> 190
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A2
 <400> 30514
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 tgctgtacac 190

<210> 30515
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A3
 <400> 30515
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 tcataagcct ggccagacaa cggagacact gcatgattga gtgcattcct gtcccttgtg 180
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 ggacccaaca tgagatgaag aaggttatcc cgacaagtgc aagccgcaac ttgaggcaag 300
 tcatcccgga gaactttgcc tacttccatg tggagttcgg gctggaccgt ggctttgttc 360
 atgtaataga tgacgagagc aagttcagtg ctggaatttg attgaatgtc attagaggga 420

<210> 30516
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-050-Q1-K1-A4
 <400> 30516
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 tattggaaag ggattcgtac ggattttgga ttctatctct gctcaccaag cttttgcagg 180

agatttcctt gcttaccacc gcaaatcctt ggctcgtatt tctgaaccgc gcccgaatac 240
actacatggt tatgctgaag tgattcatat aacaagccta gctgttcctt 290

<210> 30517
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A5

<400> 30517

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tggtcgtggt agggatctcc caaccagtct tctggtcagg aatctccgtc gggactgcag 180
gccagaagac ctccgtcgcc catttggaca gtttggtcga gttaaagata tatactctcc 240
aagagattat tacactggac gcaacacaag cctaaaagat tattgttgaa gagaaggaag 300
aaatagagaa attcaattaa gtgatctgca acttaaaaga gtactc 346

<210> 30518
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A6

<400> 30518

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gcctcttggc gtccgtcatg gtcgccatcg cgggtgtccaa gatccgtggc cgcaagctcc 180
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ggatggggca gcgcaacctg gtggtggtct cgtcgccgcc gctggcgcgg gaggtgctcc 360
acacgcaggg cgtggagttc ggctcccga cccgcaacgt ggtcttcgac atcttcacgg 420
acaaagtgca agacatggt 439

<210> 30519

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-H11

 <400> 30519

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 ggtctctaata cagaaaactg tgcattgcat aaaaaatgct gtccaggcat tacgtggatc 300
 cacctaaaca catcaatatt ggccaatata tttattccaa tgtacctagc ctgaaggagt 360
 tttgcgaacc agctacaaag ttagaagaag gaacatcagc cctgaaagca atctccacag 420
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<210> 30520
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-F6

 <400> 30520

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 acctccacat tcaaactact tctacctatt ccttcaattt ttcctctatc tatcaatctc 180
 cttaaccatt cctgatcacc tgtacatcca tcttgcattc tatgattctc tttctattca 240
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<210> 30521
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-F7

<400> 30521

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gtaaagccgg ctttacatgc ctagaagcta gtacctagt tttgctgctg tctaatagaca 180

ttatgcaatg tgatctggac cctggtttct tgggtgcgac gctttagca gccgtcttat 240

gattatttgt cgggaaaatt tgggggctcc ccatatgaga tgctgccggg caagacctcg 300

ccatccccca cctcgtttca agcgggggac gctggagcct ggtccggttg ggttgggaag 360

ccccttaaac tgttgtcgt tgcattttaa ccttttcac ggcgttcagt ggtcctaaat 420

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<210> 30522

<211> 449

<212> DNA

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<223> Clone ID: LIB3067-049-Q1-K1-F8

<400> 30522

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aaagcgaaag cagcaagaag caaagcaatg gagaacctg cgagtgtgct agttctacca 180

gcgcagttca ccaaactcac cttccgaaac ctgtacatcc gccgggccgg gccgggcagc 240

aggagataa ccgaggaggg caggtgcgac ctggacaaga gatacgtgag tgacttcccc 300

gtctacgacg gccgcggccc cgacgccagc cttgtggccc gcgtgcaggg gatcaccagc 360

gaaatcggga acgcgcacaa actgttcgtc gttgttttcg acaccgacag gctcaagggc 420

tccacgctcg tcaccaatgg cgtgataac 449

<210> 30523

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F9

<400> 30523

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 gcactcttga ggcacaaag aaaaatgacc catcagaaaa tacatgggac aaaagaaaag 180
 gagatggagg tgatggtgcg tgggggaaca ggtctgatga tggccatggc aattgggagc 240
 atcccagcaa ttggaatggg cagagtttgg atgtagatca ggacacatgg ggaaacgcca 300
 ggggaaaaaa gaaggcagat ggtaactact gtcaatggga ggagcagcca agcaattaca 360
 aacagaagaa gacaaatgct gatcatgatt cctcctataa caatgtgatg ccgtcatcag 420
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<210> 30524

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G1

<400> 30524

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 atcgttaacg cagaacttgt ggacttcttc tttgtcgaca ccactccgtt ccaactggag 180
 tattggactc acccgggcaa gcatcggtat gactggagag ggggtggcgcc tcgaggcaag 240
 tacattgcca atttgctgaa ggatctggat gtggctatga aggaaatcaa cttgcagggtg 300
 gaagattgtg gttgggcaat acaccatgag gagtgttaat gagcacgggg accccgagga 360
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<210> 30525

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G11

<400> 30525

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agcaatgcag atctctcttt ttgtcgaagt gatctccagc ttattttccaa cacatattta 180
 ttaagtcatc tttgactgaa tgccttttgg tatttttttc aagacaatac atgccaccat 240
 tttttctttg aataattgga tctataccat taaaagattg caactttaga tatatactat 300
 tggctccaca tatcattgac tcatgtgaac catacatgta agtgagataa caatgatata 360
 tatttaaagt tgtaatcctt taacg 385

<210> 30526
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G12

<400> 30526

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 agggcctccg ggagctcaca aagctacgcg tgctcaacct cagctacaac aggatttcgc 180
 ggattgggca tgggtctgtc aactgcacgg ccatccggga gctgtacctg gggggcaaca 240
 agatcagcga cgtggagggg ctgcaccggc tgctgaagct ggcggtgctg gacctgagct 300
 tcaacaagat tacgaaggcc aaggcgtctg ggcagctggg ggccaactac cactccctcc 360
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 gggcggtcac gggcc 435

<210> 30527
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G2

<400> 30527

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 agctgacatt cctgtgacgt ggtgccgacg tcgtgggttat gttatattgt tatgtttctt 180
 cctcttgggtg tgacgcaggg aaccgcgcct ccggccggac gccgctggac tgggagacgc 240

ggtcggcggt cgcgctggcg gcggctcgcg gcgtggcgca catccactcc acggggccca 300
 cggcgctcgca cggcaacatc aagtcctcca acgtccttct caccaagaac tacgaagcgc 360
 gcgtgtcgga ccacggcctc cccacgctcg tcggccctc cttctcgccc accaggggtgt 420
 ccggctaccg cgcaccggag gtcaccgaca 450

<210> 30528

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G3

<400> 30528

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 cggcatcaag aagcccaagc gccaccgcca gacctccacc aaggggatgg acccgaagtt 180
 tctgaggaac ttgaggtact caaggaaggg caacaagaag agtggcgagg ctgagtccga 240
 ggagtaagat gatggtgatt gagtttgtgg cgacaaatgc atctctggt tgcgtaaaag 300
 tcttagctgt gaaactagtt ctcacttctg tgtgactgtg atcaaaggac ttgtgtatga 360
 tcaaaggaga tccatcagtt ggtaccgaaa gtgattttat gtcttggtgg ttacctggaa 420
 ttttaattaaa a 431

<210> 30529

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G4

<400> 30529

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 atcgttgtcc taccactcta ggtctatccc ttgatctagg tttctatggt ctttaagattt 180
 gtgattttct ccgcactgtt gttgctatcc ccgtgtcgta ataatacgag atgttttaag 240
 cggttgaaca ttacgggtgt gtaatcagag taatctgttg ctgttaaggt gcattgttgt 300

atgaattgtc tctacccgag tagaagaatc agaccattcg ggattc

346

<210> 30530

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G5

<400> 30530

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acatccggat aatgggtggat gcatcggttct ttctgttcgt cgtaagcagt tctttgtatc 120

aagtgagatg gcagtgacga ctcggtaaaa ttcaagctca acagaccaa tcacaggtct 180

ctctctacat gagatcgatc tgtatgccga ttttcccgct gaactgagcc atctaatttt 240

tctctgctta tttgctattc ggaatatattt ctctctacat gaaattcccg gttgcttttt 300

tttcc 305

<210> 30531

<211> 441

<212> DNA

<213> Zea mays

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<400> 30531

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ggggccatgg acgccagcgc agccggagcc ggcggaagg cgaagaagg cgcgccggg 120

cgcaaggccg gcgggcccag gaagaagtcg gtgacgaggt ccgtcaaggc cgggctgcag 180

ttccccgtcg gccgcacgg gcggtacctg aagaagggcc ggtacgcgca gcgcgtcggc 240

acgggcgccc ccgtctacct ggccgccgtc ctcgagtacc tggccgccga ggtgctggag 300

ctggccggca acgcggccaa ggacaacaag aagaccgcga tcattcccgc ccacgtgctc 360

ctggccatcc gcaacgacga ggagctcggc aagctgctgt ccggcgtcac catcggccac 420

ggcggcgctcc ttccaacat c 441

<210> 30532

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G7

<400> 30532

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gggaagaccc tatttgtgcg aatgggtggta aatggaccat cagctgtgga agaggaaaat 120
ctgatacatt ttggctgcac actctgctgg ctatgattgg tgaacaattc gactatgggtg 180
atgaaatttg tggcgcagtt gtcagtgtgc gtgggaagca ggaaagaatt gctattttgga 240
caaaaaatgc tgccaatgaa gccgctcagg taagcatcgg gaagcagtgg aaggaacttc 300
tggaactaaa ggactccatt ggattcattg ttcattgacga tgcaaagaag atggacaaag 360
gcctgaagaa ccgttacacg gtttgatcct gatgctggaa tcccagagag ttgtagcagt 420
agctggccca aatgcatgct ggggtggtttt a 451

<210> 30533

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G8

<400> 30533

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agggggccgga gagagcagga ggaggcggag acatgggtag cttcgctaag ctggcgagga 180
gggcgggtgga gacggacgct ccggtcatgg tgaagataca agaactgctc cgagggggcca 240
aggatgtgat gtcgcttgcg cagggagttg ttactggca acctcccag tcagctatgg 300
ataagatcga aaagatcatc agggaaacaa tagtcagtaa atatggttct gatgatgggc 360
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<210> 30534

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G9

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gtcctaacgg ttgatgtgtg tgtattctgt attctgtatc ccggattccc gatgcttggt 120

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<210> 30535

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-H10

<400> 30535

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gtgccctgac accggcagcg acacgtccac cggcggcgcc atgggtgctcg aggcaacgat 120

gatctgcata gacaattcgg aatggatgcg gaacggcgac tacgctccgt cgcggttcca 180

ggcgcaggcc gatgccgtca acctcatctg cggcgccaag acccagtcaa acccgagaaa 240

cacggtaggc gtgatgacaa tggccgggaa ggggtgttcgc gtgcttgta cccccaccag 300

cgacctcggg aagattctcg cctgtatgca cgaagttggc gctgaggcaa acttggtctg 360

ggcaatccag gttgccagc ttgctctaaa gcatcgccag aacaagaggc agcagcagag 420

gattatagct ntcattggaa gtcctgtgaa g 451

<210> 30536

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F4

<400> 30536

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gcatgagaga ttctagggga cctgtaatat atattcaagc tagggataat cctggatctg 120

tcttcgtgcg atgggttgac atgttcattc agttctcaaa gttctttag tagtactgatt 180

gtctgttgat ctattctgaa tgtgatgata gtacttcgct gcctc 225

<210> 30537
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E10

<400> 30537

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tatcatgata gagcactgct gtaatggcac actgctocat gaccagaac tagtacaggt 360
cattcagctc cactgtgatc agaggaacga actctccaat ctactagcac aggccgtcat 420
tgtgcagaac gatcacat 438

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<210> 30538
 <211> 444
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 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E11

<400> 30538

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caagcagctc gtcgccaccg gcaagcccga gagcttcggc gggcccttcc tcgtgccag 180
ctaccgtggc tctccttcc tcgaccccaa gggccgcggc ggctccaccg gctacgacaa 240
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caagaacgcc gtcttctcca ccggcaacat cacgttgagc gtcaccaaga gcaaccggga 360
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caaggcgccc aaggatgtca agat 444

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<210> 30539
 <211> 447

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E12

 <400> 30539

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 ggcggacctg gctacaccaa gggatgatggc cttggcgctg agattgttgg caccttcac 120
 ctagtctaca ccgtcttctc ggccaccgat gccaagagga atgccaggga ctcccatgtt 180
 cctatccttg cccactgcc aattgggttc gcggtgttcc tgggccacct tgccaccatc 240
 cccattactg gcaactggcat caaccagct aggagccttg gcgctgccat catctacaac 300
 agggatcacg cctggaacga ccattggatc ttctgggtcg gccccttcat tggcgctgcc 360
 ctggctgcca tctaccacca ggtgatcatc agagccatcc cgttcaagag caggtcttaa 420
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<210> 30540
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E2

 <400> 30540

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 tgtgcaacct acataccata ctatggacat gaaccagcag ccagagccag cgccgggctg 120
 ctgtaccct cctgcgtgga tggcttagcc agcgctttgg ttccattgcc ttgagaagtg 180
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 ttaccgaact gttcaaataa gaaataacca catggctcta t 281

<210> 30541
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E3

 <400> 30541

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aaaaaaagaa caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatccac 120
 caaaaaaaaaa aaaaccaaca caaaaatcac caaaatacaa caaaaataca acaataatca 180
 aaccaaaaaa aataaaaaaa aaacgtaaaa attaaacaaa cttaacaaga agaaaacccc 240
 tgaataaacc ccaaaatata ccccatgcaa cataaaataa aaa 283

<210> 30542
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E4

<400> 30542

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 ctcatgctct gggccctggt ggcaccaac gcgcgccagt tccggcactg gctcgaggac 180
 gacacggcct acgccgcata caagtctgca caagaagcat ctgcaaagaa actcgactcg 240
 acgtgcccc 249

<210> 30543
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E5

<400> 30543

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 cccactctac gatctcggaa aggctacctc ctgccaatac acaggccaca cacactgacg 180
 cacgaaacta cttggctctc gcaatctcga tcactactgc cgacaccatc tggatcacgt 240
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<210> 30544
 <211> 454

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 30544

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 gaagatgctt tccatccagc tccgtgggtc cgcagccaaa ggcaagctcg tgaagggtcaa 360
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<210> 30545
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E7

 <400> 30545

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 tttaacctaa tttaaattcta cttccctcat ctttacaact tcctatactg ttaaaaccca 180
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<210> 30546
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-E8

 <400> 30546

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 aaaaaaaaaa aaaaaatgga cgcacaatct aaagaatcca aacttaccaa cacatacatg 180
 atacaacata tctcttctat aaaatcacct aaattcaata cactatccat cacaagacaa 240
 caacttgact agtaaaaccc tagcattacc aaacttaatc aacttacaaa acatcccccc 299

<210> 30547

<211> 450

<212> DNA

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<223> Clone ID: LIB3067-049-Q1-K1-E9

<400> 30547

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 ccctcgatatt gcgtccccgc tctctgctag cgccccctaaa agaggagcga agcgatgtct 180
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<210> 30548

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F1

<400> 30548

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 agagatggca gggttcgttt acaatccgtt gagtggagaa tggctcctgt cagatgatat 180
 cagtgtgaac tacattgctt ttggcgtcaa gaagggtgaa gcattcatcga caaatggcag 240
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tcagaggacc aattcatgtc actgaaatct tactgctaaa gatgcaacca agtagcagaa 360
gagaattctc ttgccctttg ttagtcttgg aaactggagc ttgtggagtg atgcttcctg 420
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<210> 30549

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F10

<400> 30549

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aaattgtgta atgatttgtt atatcgttta atgcagcccc ttgtcaacgt cagccttgc 300
gcatcgctcg tcggcaaaga gccaaaacta atggcatgca tgcgcggcac gagtcggcca 360
ggttgttcgc cttgaatgat tcgtgattgt tttatttacg tattttggtc gatgatgtgc 420
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<210> 30550

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F11

<400> 30550

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cattgtgcaa cgccctgtgg ttgtgaatgg tgacatcctt gcgaggccaa tgatgtacct 180
tgcgctgact tacgaccaca ggttgatcga tggcagagag gctgtcttct tcctgcggcg 240
catcaaggat gttgtcgagg accccaggag gttgctgctt gacatataaa ttcatgcacc 300
agcgctgcgc tgccctgccg gactgttttg tgcaattgtg cttatctgga aataatgcca 360

tggaattttt tgactgatga aaaagaatta ctttctcaga aagacgaaat ctgagctgag 420
gata 424

<210> 30551
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F12

<400> 30551

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cgctagctag tgattttgat ttgtacaagc cagatatatt gtgcactaga atcatggcaa 180
ccgaggtcct atggagctcg gatggcacat gtggaatgct aatcggctgg aagatatagg 240
ggatatgcac cgaa 254

<210> 30552
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F2

<400> 30552

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ggaattcgtg cctactcggc atttcacgag ttatgaaagt acaagaaagg atactaaatc 120
tcgtcgtaa ttgaattcag aatagaaaga ttcagaataa acaaaattta taggattcaa 180
ataatcaa ataaagtaaagg taggcgggta ataaccttat ttatgacaag tttcaaattg 240
gtaaagtata cccttaggat aaagaagaag aaggggctga gaaaactcgc aagaaaagtt 300
ccaaccgatc gtctacttaa attcgaacgg gttttcaaag cacaaaaacg catacatatg 360
tctgttttca aagcaciaag agttctagat gagattcgct ggcgttacta cgaggaaacc 420
gttatgatac tgaatctcat gccttatcga gcatc 455

<210> 30553
<211> 357
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F3

<400> 30553

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gagggggcgcg tcctctacgg caagggcgtc tcgacgagga gggccgtgca cgcacttgcg 120
tacgacaaga acctggagga ccacatgcgc ccggcggttcg tgcctgacga tgtgatcggc 180
agtgccagga gcccggaaca gtactggagc cccacacca tgaccggcct gatctgcccc 240
gccgttgttg accccaagct gctcgatggg ggcacaccag acgccagcac atatgctgca 300
tgacgcacgg agctggacca taactgttgg ttccagccgg tcgaggacgt ccagaag 357

<210> 30554

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D9

<400> 30554

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gagagggacc tatectcgct ggctatacgt ctccccctcg cgcacaaaaa ccctagcacg 120
caggcgcagc caggcctgca cccaaagctt ccggagaatt cctcccttgc cccgccgtcg 180
catcctcttc gaagttcgaa tcgaatcgcg ccgcgatcac ccacctcatg gcggacaagg 240
agcctgtcgt ggagcggcca gaggcgggtg aggaggagga ggacgcctca gccgccgccg 300
ccgcggggga ggaggaggac acgggcgcc aggtggctcc catcgtgcgg cttgaggagg 360
tagccgtcac caccggcgag gaggacgagg acgtcctgct cgacatgaag gcgaagctgt 420
accgattcga caaagacggt taccaatgga aggaa 455

<210> 30555

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C11

<400> 30555

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 agataaaggc agctggcggg gttgctgtca tggagtgaac gaagggatga ccatctcgac 180
 acaacacact tttatttcct atttttgttg ccatgatcaa gcatttgaat tgcacattgc 240
 agtgccttta tgctgatgga gaaaatagtt tacatctacg ttggtaacca aggcgagagg 300
 gaaactagag atttagttgc tatgatgata ttcatgactt gttctagaat aagcagttct 360
 ttgggctcta cacaacttat ttgggtggagt gaatggatgt tgccatcagg gccaatacca 420
 tgaatctgat gttcttgttg taccctctat ga 452

<210> 30556
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-C12
 <400> 30556

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 gtggcgttcg agctgtcgga gcggctgccg cacctgccgc tgcggatgca ggagcactcg 180
 cgccgcgcgc tggcgttcgc cgagcggatg caggggctgg gcctgcgcgt gctgtacccg 240
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 tgcgggcgga tgctgtgcct cgacatgggc accgaggagc gcgccaaccg tctcatgcac 360
 cacctncaga acaccacca gttcggcctc atggccgtca gcctcggcta ctacgagacg 420
 ctcatgtcct cctccggcag cagcacca 448

<210> 30557
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-C3
 <400> 30557

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ggggggatgtg gaaagacgtg taaactgcct ggtctgtctt ctgtgacgaa cggctcgtct 120
 ttagaacaat ggccatgtct atgacgagtt gccaatagta cgcttactgg ctatgaactt 180
 gcacctacgg caacatttta cacattttga gtgagaatca tgggaagatc catggatcgt 240
 ctattatgat gtacgttgcc tgcttaataa tgggaccaat ttcttctgct gagtttgcta 300
 aaggagcaca agaattttct gaatgcccac catggtagaa aggttgagat cttggttggt 360
 tcccgcgtgg caagatggct ggtcctttcc aggaagttgc tttcaacaca cctgacggaa 420
 ctgttagcgc acc 433

<210> 30558
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-C5
 <400> 30558

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 tgaggcttct tacttcagat ggcaacacta aggatgatct tagactccca actgatgaga 180
 ctcttggtgc ccagattaag gaagggttcg aaagcgggaa ggatcttggt gtgactgtcc 240
 agtctgcgat gggggaggag cagatctgcg cgttgaagga tgttggtccc aagtaacttc 300
 cttggctttg gagacggaac cctactgtat ctcaacttaa atcggaaaag aagtgtatca 360
 ccaaaggatt gctaccgaga cattcacctg gcttgagctg gcttttgcta tagcgtgcaa 420
 ggggttgctg ggtgtcgtac ctacctgact tatcatt 457

<210> 30559
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-C8
 <400> 30559

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ctgactgcga gaccacagca ccggaggacg cccgcgcgcg cgaaccgcag cgcagaggca 180
 ggggaacctt gtccgcggct cggccggcat gaagctcccg ctgctgcgtc cgctgtggcc 240
 gggcctgggg cctgcggcgg cggggccgct cgacgcggcg ccggagccgg ccaagccctc 300
 gctgccggcc acgtgggtgc tgctgcacgc gctcttctgc gccacatcca tggccgtcgg 360
 cttccgcttc tcccgctca tcgtcttctt cctcttcttg cccacccgc ccatcaacct 420
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<210> 30560

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C9

<400> 30560

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 ctctgtttac cgggacccgg aggaaggcag gaaggaagga aggaaggaag gcggtgatgg 180
 cggaggagac ggtgcgggag ctgcgcgcga gcttcgcggc ggggcagacg cgcccgcccg 240
 agtggcgggc ggcgagctc aaggggctca tccggatgat cgacgagaag gaagccgaga 300
 tcagcgccgc gctccacgag gacctcgcca agccgcatat ggagtccttc ctccacgaga 360
 tatcaattac aaagtcgtcg tgcaagtttg cgctcaaggg gctcaagaac tggatgaagc 420
 ccgagaaggt acctgcggcc ataactacat tcccg 456

<210> 30561

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D1

<400> 30561

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 atgaagaatt gacgatgtat cttttggttc tcatgttttt actcaatggg gaacttgtaa 120
 tgaacttgta acagatgtgc ttttgggagc agtttgcaca tctgttgatg tgcacctatg 180

ttgtaagcac attgtatgtg ttaatttggga actttggatg tttaatgtgg tgaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaataaat aaaaaatata ttaatat 287

<210> 30562
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D10

<400> 30562

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 gttgacatta tcccgtccga tcattctgaca tcgccacaat tgtctccaaa gaaaaatcag 180
 aacaagttga agtcactttt tcgtagaagg tcgcatagtt cagttagaaa gcttggaggc 240
 aagtctgcct ccattggttc cgtggaggag ttatttgaag aagggtctgc aatgctagaa 300
 gaaagcttat tttcagcttc ttcacaaatt taagcagaag ttctgccaaa cagccagctt 360
 ctacagcagc ttattagttc agctgcttct cagaatacac taaaagcagc caacaagcag 420
 aagctgcctt tcaccagctt ctgagataag ctgctttntc aacaagca 468

<210> 30563
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D12

<400> 30563

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 ccttttttctg cgaggaaacc taactcgttt ctctctctac gacatctgca ggctacgggg 180
 catgcgtgta caccggggga ggccaataat gcacggcgca cggcgggtgcc aaccccgtag 240
 cacatgatta gttttgcgag taccacgcac gcacgatggt ctggattgcc gaggtaaaaa 300
 ggttgtgcgt gcctacaggc tacagcaagg gaagggctct gggcggaccg aataattgcg 360

gttggtgccg tggttggcgt gttgtagcgt agtgcagtgc agtgcagtgc agtgcagatc 420
 ctctngtttg gttcgtcgta ccggaaga 448

<210> 30564
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D2

<400> 30564

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 cgtgtagcag ccatggacgc cagcggagcc ggtagcaagg ggaagaaagg ggcggccggg 120
 cgcaaggcaa gcggccccag gaagaaatcg gtgacgcggt ccgtcaaagc cgggctgcag 180
 ttccccgtcg gccggatcgg gcgctacctt aagaagggcc ggtacgcgca gcgctggggc 240
 actggcgccc ccgtctacct cgccgncgtt ctggagtacc tcgccgccga agttctggag 300
 ttggcagggg acgcggcgaa agacaacaag aagacgcgca tcatccccgc ccacgtgctc 360
 ctggcgatcc gcaacgacga ggagctcggg aagctgctgg ccggcgtcac catcgcgcac 420
 ggtggcgctc tcccacat ccactccgtg ctcc 454

<210> 30565
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-D3

<400> 30565

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 acctgatccc ctccccacgt ctgcacttct tcattggttg atttgctcca ctgaccttgc 180
 ggggctccca gcagtaccgc gctctcaccg tgccagagct gaccagcag atgtgggact 240
 ccaagaacat gatgtgtgct gctgaccctc gtcatggccg gtacctcac gcactctgcta 300
 tgttccgcgg gaaagattaa caccaaggaa gtggatgaac agatgcttga cgtgcagaac 360

aagaactctt cctacttcgt agagtggatc occaacaacg tgaagtcgag tgtgtgtgac 420
attccaccaa ttggcctgaa gatgtcctnc acattc 456

<210> 30566
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D4

<400> 30566

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agcgcaacac aacacagtct gactgctagt gctagatgag cccctgttc catctgtgtg 120
cgactttgtt tgtgctgtgt catctatcta tctaactaat ccatctatgc tatcctct 178

<210> 30567
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D5

<400> 30567

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tgcagagtat gcctacacga tgcaggtgac ggtgcccggc aatgtgtaca gctacggcgt 120
ggtcctgctg gagatcctga catccaagct acccgtggac gacgtgttcg gcgagggcgt 180
ggacctcgtc aagtgggtgc acaccgcacc agcaaggggt gagacgccag agcagatcat 240
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ggagatgctg caagaggcca agaacagctg agttgatgtg tttctctgct gaatcctgaa 420
tgctgcgggt gcctgcttgg aagtcgagcc g 451

<210> 30568
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-D6

<400> 30568

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actagcctta tattctacac aatcatcacag aatgggtgct acaaaatggg aggcagctga 180
taacactgaa aaggaacaaa atctcaaacg aaagtaatct acagcaataa aactgctac 240
tggcagttgc tccgttttctg tgaaactcaa gcaaagattc tcgcaggtcg aactgagacc 300
caatcaaatt gggcagctctg attatgtggc aaagctttct gtcgccagca ttccccagtc 360
ctggaactaa taaaactttc tcatttactt ctggatcaat cattcctgtg tacacgtgga 420
gccaagga ctntgtattg aacttttgc 449

<210> 30569

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D8

<400> 30569

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tcttcagctt tttctcttga cggcgctagg cgtggatgga gcggcgtcgt tcattctcac 180
caacgcctgc aagcacgcgg tgtgggtggg cgcgctccac ggcgccagct cgccgccgct 240
cgcgcggtcg ggcttctacc tggcgccgct cgccacgtcc agcatggacg cgccgtcgtc 300
ggggacatgg tccggcacgt tgtgggcgcg cacgggctgc gtggccgacc ccgccaccgg 360
gcgcttctcc tgcgccacgg ccgactgcgg cacgggcgac gtcgcgtgcc agggccgcgg 420
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<210> 30570

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C10

<400> 30570

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ccgcttatga agccatacag cactctatgg acctgtatgc tacatacatc gttgagggcc 180
tgaggaggta ggattctgat ggctaggaaa ggtgggtgagg atgttgacga aaaactggga 240
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gtagtgaacc ctcaatcaaa gaccgaaatc ccctgaggag tcggagtcgg tagtaggtga 360
agctagtaac aaggttggcg aaatattatt ttctggcctg actgcctata tatgttgtag 420
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<210> 30571

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A6

<400> 30571

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accaaccatg cttcctgaat cggcagttga ttactcttct ctcaacactt ggggttagcg 180
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aaccacaggc tgctcgtgaa gcagttgaac ttatgcccat gggagaagta accaatgtag 300
ttaaagaatt gttgtcatgt ggctaccagc ctgatcatga gccatatctt tccatgctgc 360
tacaaaacttt 370

<210> 30572

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A7

<400> 30572

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gcgaggatgg aaacagaaat gaaggtgttc ctgatagtga taaccgttct agcctcagtg 120
 ttactacaga tgaaatcagt tattcaacct gctgcgatgc aaatttggca gtggatgaac 180
 atttacaatg caccacgttt tccagtgaag aagcgacagc ctttctttct caaagatgga 240
 aagaagcaat agccgccgat cacgtgaaac ttgttgtgtc ctgaaaacta aaggaatggc 300
 agaataaaga aattctgttg agggcaacag catggaagct ccggccgact tgtcgccgga 360
 tcccacagcc ctacaacata ggtggttctt atctagcctg cagggtgcta tgaaagtttg 420
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<210> 30573

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A9

<400> 30573

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 tgctgcgtct atctggaagg cgaaggttga tgggtaacat catcgtgtct ctctctcccc 180
 tctggtgttg gaatgtacac tagcgtcgtt atcatgagat gcaattgtaa tctgagggtg 240
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 gtaaagattc agcgaatgtt actttgtcaa agcatgtata atcaatcata ctactaacta 360
 tggagacatg ttcatatgag aaatggcagc agcacatctt tgcttatata ttcaccatct 420
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<210> 30574

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B1

<400> 30574

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gttactacag atgaaatcag ttattcaacc tgctgcgatg cagatttggc agtggatgaa 180
catttacaat gcaccacgtt ttccagtga gaagcgacag cctttctttc tcaaagatgg 240
aaagaagcaa tagccgccga tcacgtgaaa cttgttgtgt cctgaaaact aaaggaatgg 300
cagaataaag aaattctggt gaaggcaaca gca 333

<210> 30575

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B10

<400> 30575

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caggaccggc tccaggggtc aggtgaccca ggtcagagtg aagttcttgg atgaccagaa 180
ccgtctcatc atgaggaacg tcaagggccccc tgctcgtgag ggtgacatcc tgaccctgct 240
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tgtaattttt gttcaatggt tgctgaactt gccgtgtgac ccatactata tctgctttgg 360
gatttagtaa gcctggattg caagtttttt ttatgatcct ggtggaaatt gcaattgttt 420
gtcggcatgt tctc 434

<210> 30576

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B2

<400> 30576

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tggtcaagaa gcggaaggcg cgggtgcctc tcgacgtcgc cgacgccgtg atggagccag 180
tacggcggtc cggccggctc gccaacctcc cggataagcc cgtgtaccgc gagaaggttc 240
ccgattttgg gatgaagatt aggaggacgt acggatcggg gagaagagat ctgaccaacc 300

gggtgtacgc gaccgacgat gcgaggagct acgccatctc taaagcggaa gatctggagc 360
aagaactgga cttcagcttc cccatcttca tcaagcccat gaccagtc ccacgtcaccg 420
ggggcttctg gctgggcctt ccgattcatt tc 452

<210> 30577
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-B3
<400> 30577

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ggacggttcc acggccctca cagccacagc accagcacga ccccgacggg cggcgcgggcg 180
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agccacggcg gcgg 254

<210> 30578
<211> 456
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-049-Q1-K1-B4
<400> 30578

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tctggcagac ggtcgggggtg gaccggccgt ctcagatact gttcctgacg gacgtgtgcc 180
aggaagccac ggcagcacag gctgcaggcc ttgaggtgct aatatctatc agacctggaa 240
acgcgccact ccctgctgaa acccatgggt ttgggacagt cgagtcattt gctgaaatct 300
tgacatgaaa ggaggatgca tcctcaacat gcatgcatgc atgctgtgct atttagagat 360
ggaaacggat tgaactagtt tcaaaaggca gatggaatgg tttcatggcc ttgatttgca 420
tcttcatact agctttatct acattgccca tgttca 456

<210> 30579

<211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-B5

 <400> 30579

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 ggacgctttg ttgagataat cttggctata cgttttttca tataaccagta tggccttggt 180
 taccacttac atgtcacaca taacaaaagc atctcggtat atttaatttc ttggctcgta 240
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 gatttccagc tattcttccg tctgatcaag tttttgatat ttgttgcttt cattgctatt 360
 ttgattgtct tgatagtatt acttcatatg accttcgcg atatatttgt gtgctttcta 420
 gcattcttgc ccacaggatg ggggatactt ctga 454

<210> 30580
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-B6

 <400> 30580

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 agagcttggc gctattgctg tctacgcagg tgccaaattc cgtgcacctg tggagcccta 180
 ctaaacgggc gggatgcaag tgcttttatg tctgcacaag tcctgtgaaa ctgtttactg 240
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<210> 30581
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-049-Q1-K1-B7

<400> 30581

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tcctcgggag gatagcgttc tactgcttcc tcggctccaa caccttcacg gccatcatcg 180

agctagccga gctgcaacgg ctgtccacgt cgatgaagaa gctggagaag gagctgaagc 240

accaagagct gtacaagaac gagcagtacc gcatgaagct gcacaaatcg aacgagcggc 300

tgctggcgct cgtcaagtcg agcctggaca tcgtgggtggc cgtggggctc ctgcagctgg 360

ccccgaagaa ggtgaccccc cgcgtcacgg gcgcgtttgg cttcgccagc tccctcatcg 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B8

<400> 30582

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tatatgtttt gagcgtgtac agtgcattgt gtttcagaaa tggggacgct ggcgtgceca 180

tggagatctg gccacctctt tgctttcatc accttcgccg tgctgttctt ctgcacttca 240

tttgccggga gacagtacag tttcttgatg gatcaagatg ccctacgtca acaagaagga 300

gaaggagcac gaactgagca gaaggaagcg ctagtgccac tggtgcaagc tcggcggctc 360

agcgtcaaga cgaacgatta cagcagctat gaccttccc cgtccatgga caagccacac 420

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<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B9

<400> 30583

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 gcttcctgac accggtcaat ggctgcttct atcattgatc gagaagctcc ctcaaagcgt 180
 gggtgatcta ctgagagctc atgttatcaa tctccatcat tatctgatgt tgttttagctt 240
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 aggcataaca caggatatga catatgctgc tgttcaagct tacacagatg catataagcc 360
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 ttcgtggtac catcttttga agaaagttag tggc 454

<210> 30584
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-C1
 <400> 30584

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 agaagaagct ggacatgatc agggaggacg acctgagcag cctgccgtac ctaaaggcgt 180
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 ccgccgactg ccagatcgac ggggtaccaca tccccgcaa cacgcgcgtt ctctgtaacg 300
 gctgggccat cggcagagac ccggcggtct gggagaagcc cgaggagtgc atgccggaga 360
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<210> 30585
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-G6
 <400> 30585

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 ttcaaagtct atcctcaagc atccattttc cgccctactg gagcaaaca gaatttgcaa 180
 tgggtgtgctg taaacttcag ctctgagaac ataccaaagt gtattggatt tggagggcag 240
 ccacatcatt tcggactctt tttatcagca aattttgacc aagggcactc atttacgtgt 300
 agcacattta ccagccctcc cctttccaag acaaataagg tcaggccaga agttattgaa 360
 tgttggggta taaaatgag aggagcacia gatgaaaaac tggagttagt caaggggaca 420
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<210> 30586
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-G7
 <400> 30586

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 ccagggcccg tacaacggga tcgggcagtg cacggcggcg tcgaacgtgt gcgacaaccg 180
 cgacgtgttc gcgttctggg acgcgttcca cccacggag agggcaaacc gcatcatcgt 240
 cgcccagttc atgcacggcg acaccgacta catgcacccc atgaacctca gcaccatcct 300
 cgccatggac caggagggcc tctagactat agctcgatca gccggacacg attatacgta 360
 catgcgtgat gtgtctcacg tgccatgcac gttagtcatg tgttggatga tggcagccca 420
 atttgccaat aatattcgtg cct 443

<210> 30587
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-G8
 <400> 30587

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cgtctccctc tctcaccgcc gcatcatcgc ggccgctcgcg accaaggaac cagagctcgg 180
 cggcggcgga tcggggggccg gcgacgggtgc cggagggagc ggcggcggca gcgacccgag 240
 gggaggaggg caggaaggag actgggagga agagaagatg gggcagggcc tgtccatgtc 300
 gcagaaactc accctcgcct acgcgcgcgt cgtcggagct ggtggtgtaa tgggatatat 360
 gaagagtgga agccagaaat ccttggtcgc aggaggcata tcagccctgg tcctgtacgt 420
 cgtccacact caactnccag tgagac 446

<210> 30588

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H1

<400> 30588

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 catgactcct tacatcaacc tttaaccacta tgatcacct cttgcgctag ataagaaata 180
 tgcacggatt gtaacacat aaatcgctga cttgttaaca gactatcctg acttctaaac 240
 taacacctac caacaacgct ttaagaactc gattacatga actgagccaa cgatagtatc 300
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<210> 30589

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H11

<400> 30589

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 gtgaccatgg tagtggtggt tcgtcaagac cctcgtcaag agggcagccc cagaggggag 120
 tttgtaaata ctacgagaat ggccactgct ggaagggtc caaatgcc 168

<210> 30590

<211> 452

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H12

<400> 30590

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 aagctcaaga cccacagaag gaaccagagg tgggctgaca aagcctacaa gaagagccat 180
 ctcggaacg agtgaagaa accatttgct gggctatctc acgcaaaggg aatcgtcctt 240
 gagaagatcg gcattgaggc taagcagcct aactctgcta tccgtaagtg cgctcgtgtc 300
 cagctggtga agaacgggaa gaagattgct gcctttgtgc caaacgatgg ttgcttgaac 360
 tacatcgagg agaacgatga agtgctgatt gctggattcg gtcgtaaggg ccatgctgtg 420
 ggagatattc ccggcgtccg tttcaaggtc gt 452

<210> 30591
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H2

<400> 30591

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 gccaaagcca atgaacaagg caagctggca gtcctcgact tcaaggcccc c 171

<210> 30592
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H3

<400> 30592

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<210> 30593
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H4

 <400> 30593

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 aggactgcat cgccacacca cgcacgcccc gtctggcgcc cgacaccgcg atgct 175

<210> 30594
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H6

 <400> 30594

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<210> 30595
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-H7

 <400> 30595

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 atgtacatct ctctacatgc tcgttcatca atacaacttc attatctact accataatta 180

cattgatata ctataatcat atatcatata atatatatct actaaaacat gaattactat 240
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<210> 30596
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H8

<400> 30596

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ggtgattgag ataactaagt tctgggggtct tgate 95

<210> 30597
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H9

<400> 30597

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aaaaagccgg cggcgaagaa gcccgcgagg gaggagcccc cgaccgagaa ggccggagaag 180
gctccggcag ggaagaagcc gaaggcggag aaacgcctcc ccgcgggcaa gtccggtgcc 240
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atcttcaagg tgctcaagca ggtgcacccc gacatcggca tctcgtccaa ggccatgtcc 360
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gcccgtaca acaagaagcc caccatcacc tc 452

<210> 30598
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A10

<400> 30598

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 aaacttggac ttcttggacg agcaggggtgg ctcggttgag gagcttgaga tgatgagggc 180
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 gttcatagca tcataggaga ataagtgaga tggccatttg tcaagagccg cacagattga 300
 caagtcctta ttggtggtta caagccatgg tggcttatgt gtatgcatgg gttgattagc 360
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<210> 30599
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 30599

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 caggttcac cagaccgccg catacggcca ctttggccgt gacgacgccg acttcacctg 360
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<210> 30600
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-049-Q1-K1-A2
 <400> 30600

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<210> 30601
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-049-Q1-K1-A4
 <400> 30601

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<210> 30602
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-E9
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<210> 30603

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F1

<400> 30603

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ccagattgtc catactctct ccttcatttt caactaagaa aacctgctta ttccatataa 180
atcttctgct cgtattgtat ccagctctat ccgttacctg agtcctgaca ttctggattt 240
ttacacttgc acagtgcatt attgatttta gaccatgttg acttgaactt ttgttaatag 300
ggatatttta cacccttatg caactgaact ttgtgctcaa gatactgcct ctcatctgct 360
ccttttcttc atctacaacg cact 384

<210> 30604

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F11

<400> 30604

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ccattggtcg ctacgacgac atgtgggccg gatggtgtgt gaagggtgtgt ggtctcgctg 180
ttcttgcttc cacagctagt tacttcttac caaaacata atgtccactg gactgatgat 240

gattttacaa ctgaaacaaa ataacttagg tcactctgca ccacttgagc ctgggagtca 300
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ttccaagga ttgcgacacc gtc 443

<210> 30605
<211> 62
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-048-Q1-K1-F12
<400> 30605

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ga 62

<210> 30606
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-048-Q1-K1-F4
<400> 30606

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ctccatggag taccacgaga gcagcagcca aggtccgccg cagccggagc tgttcagcat 180
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<210> 30607
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F5

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gctgctgttg ttggtgttga gcatgagggtc aaagggtcaag gaatttatgc ttttgtaact 180
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aaccagattg gggcatttgc agctcctgac aagatccact gggcaccggg acttcctaaa 300
acccggagtg gcaagatcat gcgaaggatt ttgcgcaaga ttgctgcacg gcaactggat 360
gaacttgggg acataagcac cctcgctgaa cctgctgtag ttgaccagct ta 412

<210> 30608

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F6

<400> 30608

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agatgctgtt aaagctgcat ataatcgcta catgacatat ctggagtcct ttggccctga 180
ggaaaattat ctaagaaaga aggtggagac tgagttgggc acaaaaatga tacacctcaa 240
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gatctcaggc tcctatgttg agctaagggc atgatgtgaa gcctgcagat cagaaccatg 360
gaaattatcg atgagctgag gaagtctgta gatcagaata tgccgttcta cattttcctt 420
tcccctttgt agctaccatg gcaat 445

<210> 30609

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F7

<400> 30609

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taaattcatt tcattgtcca tattttttaca actttttcaaa cttgaaaaac ttttcgcttt 240
ttccatcttt ttcaatttgc tgtacttccc tttttttt 277

<210> 30610
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-048-Q1-K1-F9
<400> 30610

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cgccagcagc atcaagacca tggtcctcgc tgcgccgacc accaatgcca gcgccagcgg 180
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cgagagtcca gaggacgacc acgactaagc gtataaatat aattaatagc cacgtctaaa 360
ttagatcccg gcaactgcac cccccattat cgatccatgg tccctcctgg ggttcattgt 420
c 421

<210> 30611
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-048-Q1-K1-G1
<400> 30611

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tgtccaagtt ctataattca ttaggaagaa agaaaacctg catcttccag ctgtatttgc 180
tgctcgtatt gcagcacaat caaacgtaa totgagacgt gtgatactgt tttttcagac 240

ttgcaaagtg caacagtaat ctgagacgat gaggacttga acttgggtgg tttgggtata 300
 ttcacaccct taaccaactg aactaggagc acaagatacg ccttggatca aaagctatatt 360
 ttcattctaga aggcactgct tccaggtcgg 390

<210> 30612
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-G10
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 cagaaggcct ggaggaagaa gcgaaagtat gagcttggtc gccagccggc caacaccaag 180
 ttgtcaagca ataagacagt gaggagggtc cgtgttcgtg gaggtaacgt gaagtggagg 240
 gctcttcgcc ttgatactgg taactactca tggggaagtg aagctgttac ccgcaagacc 300
 cgtatcctcg acgtgggtcta caatgcatca aacaatgagc ttgtgaggac acataccctt 360
 gtgaagagtg ccattgtgca agttgatgct gcccattca agcagtggta cctcactcac 420
 tatggagttg acattggtag gaagaagaaa 450

<210> 30613
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-048-Q1-K1-G12
 <400> 30613

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 tggagatgac aacgtaccat ttatttgtac tatggactgc ttaggtgcaa aggagctggc 180
 caaggatatt gttgtatctg ggacagcatc agaattcttg tatggtgctt gtgagtccat 240
 gtacaagccg aacatggaac ctgatgaact cttcgaaact gtatcccaag ctctgaattc 300
 atcaatagac cgtgactgcc ttagtgggtg ggggtggctat gttctgattg tgacaccgac 360

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aattcttagc tggtttccaa tgctta 446

<210> 30614
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G2

<400> 30614

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aaacatctct tcccaaatac tatcctcaaa catccattaa aaccctact ctaccaatca 180
atcatcttca cttttaaaact cttaactata cctctaacaa cataccaaat tacattatat 240
atataattca aacacatcat ttctcactct ttatatcatc acattatcac caactacact 300
catttaccta taacacaatt acc 323

<210> 30615
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G3

<400> 30615

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catcgtggcc agcggcctcg cccgccgctg cctcgagcag gagtctacg ccatctgcgt 180
gccggagccc ctgtccgtgt tcgtcgactc ctacggcacc gggaccatcc ccgacaagga 240
gatcctaaag atcgtcaagg agaacttcga cttcaggcca gggatgggtca ccatcaacct 300
cgacctcaag aagggcgcca acaggttcat caagaccgcc gcatacggcc actttggccg 360
tgacgacgcc gacttcacct gtgaggtggt caagccccta aagaaagcat ccgcttaaga 420
atgtattgag aagttcactg gacatgagga tcattcttct ct 462

<210> 30616

<211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C5

 <400> 30616

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 agaagggttaa tgcatttcac accgactata tggttactcc attacatcgg tacatcaatg 180
 atccaaatgc acatgcaatc attaataatc aagctacctt acacattact gcgataacga 240
 acaactcata ttttgaccca tcacattatg cactacattg tcactataaa catcc 295

<210> 30617
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C7

 <400> 30617

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 cggccggggc ctacccttca agatcttggc ttcattgattc ttccggagct tgggaaagaa 180
 aggggttaca tcagtgaagc attggtttaca ttcgtcttcc tcaccttcgt ttagtctgaa 240
 ggatgaaagg atgaaatgtc cacaaaacac tagttctaga tcgcga 286

<210> 30618
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-C8

 <400> 30618

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 tcggcggcct cgctcgggcc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag attatcctcg atcgggagac gcagaggtcc cgcggttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag 360
gcggcgggcg cggtacggt ggtggcgtg gaggc 395

<210> 30619
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C9

<400> 30619

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gtgcgccgtg gagcttggca tccctacggc gatctaccgc catggcgggg ctgcctcagc 180
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgect 240
gctgcggctc ctgcgcggt caggcgtgtt caccgtcgac aagcagagct cggaggagga 300
gcggtaccgc atcagccccg tgtcctacct cctggtggac ggcacccctc acgaggacca 360
catgaaccac accgctctgg tgctcacctg cacctcgacg cgctacattc gaggcgggat 420
agggcttgcg gaat 434

<210> 30620
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D1

<400> 30620

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ttgtccctcc aatacatagc caccgtgcc ctctctctgc tcgtcatcgc gtccgccgtt 180
tctgtctctt ccttgccgcc ggaggacggc atccgggtcg tctctgcaga gaaaagaatc 240
gacctcacgg gtcccatcgt caaagtcttc ctaacattga aggttgagaa tgctcccacg 300

gcctctgaag catcacgagt tctcctcgcc ttcacgcca cagagtttca acatctctct 360
attgtcaagg ccacaagagc ggaaggg 387

<210> 30621
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D10

<400> 30621

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caaaaggacc ctccaacgtc atgcagtgcg ggtcctgctg gtgaggatat gttccactgg 180
caggcaacca tcatgggtcc tctgatagt ccatatgctg gaggtgtctt cttagtgaac 240
attcatttcc acccggacta ccctttcaaa g 271

<210> 30622
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D11

<400> 30622

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atcacgaagg ggaaaggttt tgcaggtgta atgaaaagat atggtttcgg tgggatgcct 180
gcatcacatg gaacatcttt ggcgcacgc agtgggtggc ctactgggtca aagagatgct 240
cctggaaggg ttttcaaaaa cagaaaaatg cctggacgca tgggtgggtgt gcaacgcaca 300
gtgaagaatg tatgggtcta tcaaataagac ccagccagga acttactgta tctgaagggc 360
caggttcctg gtcctcaagg tagctttgtt ttcgttaagg attctatata taagaaacct 420
gacacggcta tgctcccatt tctac 446

<210> 30623
<211> 447
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D12

<400> 30623

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taactacagc gccagatgag catggtggaa ctcatggggg tcagcaggta ttcttgctga 180

ctccacctct gagtgtgact aaaggagaca acgttaacgt ttccttctcg atggttcgct 240

cgaaggaaaa ccatcggtt atggatatgg agttcacata tgaattgcac gagttatctg 300

gcaagaagca cccagcagtc aaaaccaaga tgtacttaga gtagaacaag atggaaagac 360

ggaacctcac gacgccgttg ctgaaacctt tgctcagaag ctgagcatgt agtgtgcttg 420

ttacacccat gatgggtaca ttgagac 447

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-D3

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attttgcaat tgtagtagag aactgtatcg tccgacgaag gtgcatgggtg ttggccatgg 180

gtcacggcag ggaacagaga cgagcaggtc ggcgctctcc cccagctca ttgatcctgt 240

cctcgctata aggtagtcct gcggtggcct ccgaatttca ctcgatcgaa cacgacatga 300

agcggccacg cggcgccagc cccctctgg ctgcgatgac caatccgaac gatgatggtt 360

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<210> 30625

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D7

<400> 30625

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taaaatataa aaacaaaaaa aaaaagaaaa aaagaggaaa aaggtaaaaa taataaaaaa 120

aaataaaaaa atcaaaaata aaagtggcgc gccgttttaa 160

<210> 30626

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E1

<400> 30626

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tgccgacgcc gggtcagct ccggcaccgt ccggtcctc cgcgacgaac acgaacgact 180

cctccgctgc tctcggcca gccaaagcca gcgcattccc accccaatg tacgggtggtg 240

tcacccccgg cagtctccag ccacacgagt gcggcgccg gtgcgcgggg cggtgctcgg 300

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<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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catcgaaggc tccaaggcca acaacgccat gtccggtggc tgtggctctg gttgcgggtg 180

tggatgcggc agcgagcttc ttgacgcca ccgcacctc gccgccgtcc agaacgcgca 240

gcgcagcgcc aagcgccgcg gcgcggggcc cgcgaggccc gtcattgccg tcaccccgac 300

caccaccttc gcgctccagg tgccatccct gacgtctctg gcgcacacnc ttcgnctcgt 360
cgacgcccag ctctgttgga tcgtcgtcg 389

<210> 30628
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E11

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aaaaaggctg tagtcaactt caactaatac aactacaata aacccctaac 110

<210> 30629
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E12

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ggctgcaaag agctgaagtt aagcatcgtc atccattcca ttgtgaacat catcattaga 240
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aatatcaggg cctaacttga gttactgcta caggccatag ttgatgggca attctggact 360
tctggtgctg aaatagctca 380

<210> 30630
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E3

<400> 30630

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tcgtgacacc tggttcgtca gatgttttgt caaacttgct tggcttgatt ggttgtactt 120
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<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 30631

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gacgatatcg ctgacacacc tactgttgca acaccattcc gtgaacctcg ttattcattg 180
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tgggctccta tgagccctcc gagggataat tgggaagatg gaaatcctgc tacttggggg 360
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tgatcanggt gggcaaacac 440

<210> 30632
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E5

<400> 30632

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aacaatgagg atgggtccaa tgtgaaacga atgggtggcta agaataaaga cccgtcgact 120
cctgttctct aa 132

<210> 30633
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C4

<400> 30633

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tccgacgcca agatccccga caagggctgc ctgctccgc tcctctctaa gctgctcggc 180

tacgccatcg tcgccgcac caccaccgtg aagcttcccc agatactgaa aattttgaag 240

catggaagtg ttagaggact aagtgtggca tcctttgaac ttgaggttgt cggctacaca 300

attgctttgg catattgtat tcataaagga ctccctttt cagcttatgg ggagctagct 360

tttctgttaa tccaagcaat tattttgggt gcaatcattt actattactc accaccaatg 420

ggaaccaaaa catggatgaa agc 443

<210> 30634

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E6

<400> 30634

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaagagaga ataacatact aacatactca aaaaaaaaac aaatatacta ataaaaaaat 240

aat 243

<210> 30635

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B10

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gatgcacttc tctcagggcg atggtgaagt ttcgttttgt ggagcaattg aaatgagtgg 120

attccttgag ctcaggtgcg agatcataag aggcgggatg aaggaatact tgacccccagt 180

tgggtccgaca ccgctacacg tgaacctat ctttgagatc ggtcctgtcg agccgcgctt 240
ctcggagtgg ctagtgtttg agggcataag cgtggatgaa tctgggaagc agcatttcct 300
tgatgcgtca gttgcttaca agcgtgcagt cctgaacgcc attgagtaca ttgctagatt 360
tggttactca aaggagcaag tgtatctctt actatcatgc tgtccctgtg aaggtaggat 420
ctctggaata gttgactctc ctaatgc 447

<210> 30636
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B11

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tgctggcggc gtcctgcag ctgaggcga gaaagaagag aaggtggagg agaaggaaga 180
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tgtgctggtt ggggtttact ggtgaaccag agtttttcta tctcccacta tgaatttgtt 420
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<212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-B12

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<223> Clone ID: LIB3067-048-Q1-K1-B3

<400> 30638

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tctgccaagt ccaagagacc tctaagtttt ggcttgaggt tgaaaatcgc attgggtgct 360
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<210> 30639
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<223> Clone ID: LIB3067-048-Q1-K1-B4

<400> 30639

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gatatatattt acatcccaaa cgggctataa ttggagatac tattgattct ggtacaaaag 180
ttcctatata aatgggaaat gccctacctt tgaccgatat gcccttaggc acggccatac 240
ataacataga aatcaca 257

<210> 30640
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<223> Clone ID: LIB3067-048-Q1-K1-B5

<400> 30640

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cttcgtcagc cgcgtcctcg ccggcaaggc cgctctgccg aggagggccg tgcacgcctc 180
ggcgtacgac aagaacctgg aggaccaggt gcgcccggcg ttcgtgccgg acgatgtgat 240
cggcagcgcc gggagcccgg acaagtactg gagccccac cccaagaccg gcgtgttcgg 300
cccggcggcg gtggacccca agctggccgc tgggtggcgc ccggacgccg gcgcggatgc 360
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 <212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-B6

<400> 30641

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tggcgcctac ctgcgccggc tgggtgtcgc ggtcctctc gctgcctcct tcctccagtc 180
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gatgaaggag gtggaagtgt ggcttcagac aataagtcca ggtcaaagga cgccaatcca 360
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 <212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-B7

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tgagccacct acctgtccaa aatttgggtgt taaccccggt gccacacctt gtctccactg 180
cataatcaaa caaggcctaa gtacaaccct taatcgagat cccaaaatct gccaggcct 240
cgtactaaga gtgatcaaac aaccagggtga tttttcacia atttgaacta tgagatttta 300
tctgcactga attgtttctg tttctccaac gccctgcagg ctgctttttt cgatctctta 360
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<210> 30643

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B8

<400> 30643

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ccaacatggt gcaacttcac gccattgagg aagtctagga tttgctcacc ttggatgaag 180
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cggcatggtc cggatctgac acgatatcaa ccatgagatt acagggtcag attcagcgac 300
ataatctctt ggttcttatt gattcagggt cttcacatac tttcctcaat gacagtcgtc 360
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<210> 30644

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-B9

<400> 30644

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cgcgcagggc ctctcgcgcg tggacgcgga gaacgcgcgc ctccgcaccc aggccgcca 180

gctcgccgcg cgctcgggt cctcaacga catctcgcc tgcataaaca ccaacgcggt 240

cggcgcgcgc gccgtctccc tcacagcgc cgccgcgcgc gccgtcgctt cctccgaccc 300

ctgcctcgcc ttcgacggcg ccacgctct ggacgacctn ctgagatcct gccccgagaa 360

catgttccag taccagctct gtagctcca gaccgcgcga agtcaccatg gcagcgcaaa 420

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<212> DNA

<213> Zea mays

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<400> 30645

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ttgtatgtag cctttttgac gtgtagcacg cttggtgttg agagcaatgt acacctgtac 120

tgttggttg gttgtgatta tacacgcggt tttttttgga gctagc 166

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<223> unsure at all n locations

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<400> 30646

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attcagtcac attcagtga gcaacaagct tgtatccttt gagccactga aaattacatt 180

gcttcatttt ttatacaagt attatttggc atcattctcc ttaataaatg cagatatcac 240

tgcagcaatt ggattatgtt tggaaaagct aacagaaaaa gaattagaaa caactaaaga 300

tgtattgaat tctattcttc aaggagtaag ctgtgagttc acccttgtac attagcttac 360
 cagaatttga tatgagtaac gataacatct tcttgctgat ttgttnttgt cactctaggc 420
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 gacttccccg tctacgacgg ccgcgggccc gacgccagcc ttgtggcccc cgtgcagggg 360
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 ctcaagggct ccacgctcgt caccaatgg 449

<210> 30648
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 <212> DNA
 <213> Zea mays
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 cccagagcc acccaagtgc ccagagggc gatcctcgag aggatgaagt ccaagggcga 300
 gttgtccaag tcgtaccagc tcgggcacag gctgtccctc aaatggagca ccggggctgg 360

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405

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<223> Clone ID: LIB3067-048-Q1-K1-C2

<400> 30649

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tgcaaaatga ctcgactgca cagtaagctg gtgtgacagc aactgggaac aacaccgatc 180
tcttcaagga cttgctaagc tacttggtag agtaaggcac accgtatggg acacctgac 240
cttctgggta gatggaggct atcatcgaca tgatttgatc actgtaacaa tcactatctc 300
actgattgat cagc 314

<210> 30650
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C3

<400> 30650

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agaataatgt ttgtatcttg tcaatttacg gaacagacat gaaattcaat gcaggtcact 300
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<210> 30651
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<223> Clone ID: LIB3067-048-Q1-K1-B1

<400> 30651

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gcgtgtcata ctgtcatggc actctacaag tgcattgtgcc agaaacgtgc atgcgtctct 240

cggttacgga ctctttacag ttgcatctaa aacaattcaa agcaccttgc ggtgcatcct 300

tgaaaagtgt gggc 314

<210> 30652

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H4

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atggaatgtg cagatcgagc caaatcaaaa agaggaacat cattactgga gtcaccaattc 180

atactaccgg tcgactatat atgaacgaag cctgcctaga gctcaacatg aagctgaatc 240

agcagcatgt caaatcgaaa tagatggaaa cgacttcaca caacaataga gcacgctgta 300

ctggctacaa atatgtttct ccaactgctc ggagaaagac ctactgaaca atactagata 360

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<212> DNA

<213> Zea mays

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ccgtttaatt tactagtgtg ttcgtcctat atgttttagca gcagcaggtg tattgtgcgg 240
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 <211> 430
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 <213> Zea mays
 <223> unsure at all n locations
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 ctccagcctc aagcccggca cgctgaacaa gctgtcgcag catgagcagg tgtcgtctgg 360
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 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-H8
 <400> 30655

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<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H9

<400> 30656

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<212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-A1

<400> 30657

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<212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-A10

<400> 30658

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tttgctgact acgccgaggg ccacctgaag ctttcagaat tgggatttgc tgaggcgtaa 180

agtgagagag aacgaaccag aagagtgtgg tggttgtcgt cggccggcag gccttgtggt 240

tttgtgtct gcttttctct tgaatgaaaa tgtgatgaac tctgctgaag atgtaatgtg 300

tatgttgta tggttcattt ttctatttta tttatctata atatctgtcg gagaagcttt 360

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<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30659

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ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcatcact 180

aaccaggtca ttgcccaact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 240

aaggtgtatg tgctcccaa gcaccttgat gagaagggtg ctgctctcca cttngncaag 300

cttggtgcca agctgaccaa gtcaccaag tctcaggccg actacatcag cgtgccgatc 360

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<210> 30660

<211> 446

<212> DNA

<213> Zea mays

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<400> 30660

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A3

<400> 30661

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<210> 30662
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A4

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<210> 30663
 <211> 278
 <212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-A5

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<210> 30664
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 <212> DNA
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<223> Clone ID: LIB3067-048-Q1-K1-A6

<400> 30664

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 tcgtcatcaa gaaccgtccc tgcaaggttg tggaggtttc tacctgcaag actggtaagc 240
 atggccacgc caaatgccac ttgtcgcca tagacatatt caatgggaaa aagcttgaag 300
 atattgttcc ttcacacac aactgtgaca ttccgcatgt gaaccgtact gagtatcagc 360

tgattgatat ttctgaggat ggatttggga gccttctgac ttcatatggc aa 412

<210> 30665
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A7

<400> 30665

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aaccgcgcgc ttgtccagcc gcatctctag ccgagtctat ctctctctcc tcttccgccg 120
ccgcaactat cctaattggct cgcttcgccg tggtcgccgc catcgtcgcc ctcttcgccg 180
tcgtcgcggc gggcgcaggcc ccggccgccca ccccgaccac agctcccaag gccgcgcca 240
ggatggcccc gctgccgccca cccctgtgct ggtccccggc caccgtcccg gcgccggccg 300
tcaagccgtc gaccgccgcg gcgccgaccg cgctggcctc tcttcccgcc ccgtccaccg 360
aaggccccgt cgtctctgcg ccgttcgtga aagccccgac cctgtccgtc ttc 413

<210> 30666
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H3

<400> 30666

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caatagtggc acttgcagtt gtgttcaga agatggatat gcagcttggt ccagatcaaa 120
agattaacat gactactgga gctacaattc atacaaccag tggactatat atgaatgtaa 180
gcctgcgtaa agttcagcaa gaagctgagt tagcgtgag cgaatcgaaa tagatggaaa 240
cgacttcaga caagaataga gcacctgaac tggctacaaa tatgtttctc cagttttctc 300
ttgaaagctc tactgtacta tactagatgt caatgcgtcg gcatacagat tacagattcg 360
cttctcttga aacatgaaag gatccttcgc tggctgattc gtttggtat tcgtgtgt 418

<210> 30667
<211> 443

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-F9
 <400> 30667

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 ggctgcgcct gcggcagctc atgcaactgc atgtcccctg acgtggagac cgccgccgcc 120
 agcagcatca agaccatggc cctcgtctgcg ccgaccacca aggccagcgc cggcgggttc 180
 gaggcggcca ccgagggcgg cggtgcgcac tgcaaacact gcaactgcgg caccagctgc 240
 ggctgctcct gctgcagctg caactgagcc ggcccgcgcg gcccggcgat ggcgacagag 300
 agtcgagagg acgacgacga cgaagcgtat aaatataatt aatagcagcg tctaaataag 360
 atcctgtcaa ctgcaccgcg cattatcgat ccatggctgc tcttgggggt catgttcac 420
 tgtgtaacgt gctcgcngtc atg 443

<210> 30668
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-G1
 <400> 30668

atctgagaat aaggataggg aattcttggt gacagtcact gtaaaaagat tggatgatagg 60
 tggatgtaca atgcatgcaa aaaatgcacc cgcacagctg tggctcatgg ggattcctac 120
 aagtgcagcg atcaagtttg cgtaacatt ggcacgccta gccagaggta caaactgctt 180
 ctcatgacag gggatgagac gggatgacaca gacttcaccc tctttggctc gatggcgcaa 240
 cacatcatca agaagccgtg cgatatgctc attgccaaca atccgatcgg ctttattcct 300
 gatccaatca cagatctgct cgagaagacg tatctatgga atgtgagttt ctctgaccac 360
 acaatcaata ctggaaatat ttgtttccag gtcaacgcaa tcgtggcaga gataggta 418

<210> 30669
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G10

<400> 30669

cggacgcgtg ggcaaccggc ggtccatctt gagaggacca agaaacagag agagcggttg 60
tacgtccgag tcgtcgcatc aggtcccttc gattcgccgg cggcggcgcc accaaccaag 120
ctcatacatc tgaattgact agtccaactc agggatttct ttggggacca atcaaactca 180
agaactaagt ttcatgtctg atctcgacgt ccagcttcca tctgcttttg atccgtttgc 240
agaggcaaat gctgaggact ccagtgtctg tgctggatca aaggactatg tgcacgtgcg 300
tattcagcag cgcaacggaa ggaagagtct gacaactgtt cagggcttga agaaagagta 360
cagctacaac aagatcctca aggatctcaa aaaagagttc tgctgcaatg gtactgtagt 420
ccaggatcca gagctaggcc aggtcattca act 453

<210> 30670

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G11

<400> 30670

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gttgcttget gatgcttttg aagcgtacaa gaggaacaa gaaacagcta cataagatac 120
tctatgactg taatgagcag ttgaagcagt ttagtcatgt gaaccaaag gctcttgacc 180
aatatgtgaa cttcacagaa caacgcgaac aactgcagag aaggcgagct gaacttgatg 240
ccggtgatgt gaaaatcatg gaactcatat cggttttaga ccaaaggaag gatgaatcca 300
ttgagcgcac atttaaagg gttgcaaggc acttccgtga aagtgtttct gagctgggtgc 360
aaagtgggtca tggatatttg gttatgatga agaaaaagga tggggatgca attgatgatg 420
atgaagaaga agatggacct cgtgat 446

<210> 30671

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G12

<400> 30671

cccacgcgtc cgaaaaaaaa aaaaaaaaaat aataatttaa aaaaaaaaaa aaaaaaaatt 60
gtaaaagtta aaattcaaaa aaaaaaaaac atgactccca ttttat 106

<210> 30672

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-G2

<400> 30672

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gcggtgctggt ttctctgtgc aaattgctgg gttcgatggt cctagcttcg tatctgaagg 120
cagcaacatt ttcaagacca ggattgaagg tgcaaacatc gctgatacag ggcttacaga 180
taaggatgac ttaattgtca ttcatctgga tgaatctcta gatctctctc gatcagatta 240
ttttgataat gaactttcca gcttggcaaa ctgggttgag ggatcttatac agaagtctac 300
cggcaaaacta gtcattccct tggagaatgg aaacagtctt actttgcaac ttgataagga 360
agcagacaag gaattcatgt ccagcttggc tttccttctt aagactatct gaagggcgat 420
ccanngtcat gaagatttct caagtgtcgt gaacc 455

<210> 30673

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G4

<400> 30673

cccacgcgtc cgccacgcg tccgoggact cgtgggtttt actatcagga acatctctgg 60
attggcactg agttactacg ggcaaactct tatgagtttc agaaatataa ccaggagtct 120
tgttacgagg tgtacttttc actgcccaga atacaggcta tagctcgaca atgcttggag 180
gctttggtgt acttgcacat tttaaacata gttcactgtg atctgaaacc agagaatatac 240
cttctgaaga gctacagcag atgtgaaatc aaagttattg atcttggaag cagctgcttc 300
ttgtcagata acttaaactt atatgtccaa tcacgttctt accgatctcc tgaggtcatc 360

ttgggtttac catatgatca gaaaattgac atttgggtctc ttggctgcat cttatctgaa 420
ctgtacactg gtgaagtac 439

<210> 30674
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-047-Q1-K1-G5

<400> 30674

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ccgtgcttca tggcgcattg tctcttctat tgaacagaag gaggagtccc gtaagaacga 120
agagcatgtg aaccttatca aggaataccg tgcgaagatc gaggctgaac tgagcaatat 180
ctgtgatggc atcctgaagc tgcttgactc ccacctagtg ccttcttcta ctgctgctga 240
atcaaaggtc ttctacctca agatgaaggg tgactatcac aggtatcttg cggaatttaa 300
gactggtcct gagaggaagg aatctgctga gagcacgatg atggcctaca aggctgctca 360
ggacattgcg ctggctgagc tggcacctac ccatccgata aggcttgngc ttgctcttaa 420
cttctcagtg ttctattatg agattct 447

<210> 30675
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G7

<400> 30675

gctgagcgtt cagcagcgca acctctcggtt tgtcgcatac aacaatgtga tcgggactcg 60
ccgtgcttca tggcgcattg gctcttctat tgaacagaag gaggagtccc gtaagaacga 120
agagcatgtg aaccttatca aggaataccg tgcgaagatc gaggctttat tgtgttatat 180
cttatatgtc atcctgaatt tgctttactc ccacctagtg ccttcttcta ctgctgctga 240
atcaatggtc ttttacctta tgacgatggg ttactatcaa aggtatcttg cggaatttaa 300
gactg 305

<210> 30676
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-G9

 <400> 30676

 ctccaaaata tgattcgtct ggtctggcgt gcgtgagtc agctcgtgtg tcgtgcgtgt 60
 ctctgtgtga ggtgtcgtcg ggcgtgtgta tgtatggaca gtcggccgcg gggcgggcgg 120
 aggtgtgcga gtggtggtgg tggtagctgc ttcgacgcgc cactgtttgt cgcggcgatc 180
 atgtactacc ctgctgcgtt ttctggttat caatgagatg atttatttga ttcttttcag 240
 cctgggcact aataagcgca cccagtttt 269

<210> 30677
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-H1

 <400> 30677

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 cactggggcg acaccacggt gatcgacgac gcgtgacgg acggggccag cgcgtcgtcg 120
 tcgcggtcgt tcgggcgcgc ccagggcacc tacatgctgg cgtcgctcac ggagtctgtg 180
 ctggcggtgt tcatgaccgt ggcgcttacg gccggggcct acaacggcag cgcgctcgtc 240
 gtcgtgggcg cgacgacgtc tcggcgggcg tcaggagct cgcggtggtc ggcggcaccg 300
 gcggttccg gagagctacg ggccacgtgc tgtggcggac ggccaggatg ggtcccggg 360
 accacatggt gctggagctc gacgtctacg ccaccgtgcc ggccgctagt tcggcttcgn 420
 ctccgcgcgc cgga 434

<210> 30678
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-H10

<400> 30678

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agagagcgaa tgcagcaatt tggtactctc attacaagct caataaataa ggacttacca 120
tctaattctgg agaagtcact taagaaagaa atttcttcac ttgggcctgt tgttgctcgt 180
gcaattacgc ctattattga gaagtgtcta acctctgctg tttctgattc agttcagaaa 240
gggttgggtg acaagttggt caatcagctg gaaaagtcta ttactggaaa acttgaagct 300
acacttgcca ggcaaatcca aatccagttc catacatctg gaaaacaggc tcttcaggat 360
gctttacgta ctagctntga atcattgctt gttccagcgt ttgagcaagc atgcaagaca 420
atgtttgagc aaatagatgg tgcatttcaa a 451

<210> 30679

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H12

<400> 30679

ggagaggaag agtcttgcct gcttttcctt tttgaacttt cttttgtgcc ttcacctgtg 60
ttacattttg agtcgagggc tcctcttaaa ttgtgtgcag aggggctcga ttttgttacc 120
ccagaacaag gcgcatgtgc gtcggcgtcg tcttctgcc a cgtatctat cgaccttatg 180
tacatcttca tctatatata gtatgagttt tgatgtcatc tatttcttgg atgtctcaca 240
aggttattta tttgtaaaaa aaaaaaataa aaaaaaataa ataaaaaaaa aaaaaaagat 300
acaataaaaa aaccccataa aaaaaaaaaa aaatacatat ataaaacaaa catctaatat 360
aaactatact tactttcatt atacttacat ac 392

<210> 30680

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F8

<400> 30680

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 atgaacggct ttatcatgga agcttacata agctactctt tgtaagatca gatggtcgtg 120
 tcatggactg gtctagacgt ttgtagggtt ccctgggtgc tgccagacgt ctagctatct 180
 tgcgatgatga aggacccttt caggccatgt acagcgagtt ctcaactttg aacatccaaa 240
 tagataaagg ttacactgct aagctttcaa gatatgggtg tgatggcttc aataccgagg 300
 agatatctaa tgcacctgtg tctgcagcaa acctttcggg ggagaccttg tagaaggggt 360
 tactcactcc caagagcaac gtatgtagct ttggagtcgt gttactggag ctaatcactt 420
 ggaggaagaa ccttgatccc aattattcca a 451

<210> 30681

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E4

<400> 30681

catttgtaag ctaggtgggc ttcaacgaca ttaaaaataa ataaataaat gtatgtaact 60
 actatccaaa tttctcatat aattttattt ttcattatat atttacagta taataaacat 120
 actcgatata ttcacacaac catcctagta tataaatctg aactgatata aaactaaatt 180
 aaaatatata aacctatctc tttaaaaaat caaaacaaac atacacatgc attctacaat 240
 atatcattaa ctaatttaaa tccaaatata ata 273

<210> 30682

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E5

<400> 30682

tagacgtacg catcagtata agcttcctaa agctcgtgct cgctaacata catagtcaaa 60
 ctgtatgagg tggcggggac aattgtatgc taggtgggct tcatggacat taactataaa 120
 taaatgaata aatgtttgat gtatgaagat cagctctagt atgctatgta tgactccata 180
 ttcgtcgtat tatgacatgg tgtgctcatg aagtcaagtg tgactagtgt atatattgtg 240

gaacgataac aattgcataa ttaaagggct gtgcagtggc attagaaaat actagcttaa 300
cgatgttgtc aatatgatca g 321

<210> 30683
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E6

<400> 30683

atgatacaca gcaagcgcga gcatatgatg attgccatta gagagtagcg acattaacgg 60
tgttccccac ttctttcccc tcccgttcaa tctcactggc ctttgattgt attatatgtg 120
agcatccatc attctgtgaa aaaaaaacia aaaaaaaaat ataaaaaaaa aaaaaaaaaa 180
gaaagcccta taaatgatcc aagacaaagt catgcaagaa tgcgacgaca aacacattct 240
ctggtgaaac tgatttataa cttagctctc gtactggagc tatgacttga ctgctaaatc 300
cctgggggtca tccaacgtat tcgatatacg gcaaatacct cttgtaccag ctcacgctga 360
ccctaactga ct 372

<210> 30684
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E7

<400> 30684

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ggtcctagta tgatagacaa gtaatataaa tagtagagtt attgtaaggg aatattagag 120
tgattaaatg tctatgactg ataaaataag aataagggtt ataaactatg gcaagagatg 180
aaggttgtga aaatatatgt gcttcaagaa gtttagctatg atcatagtat tataatgact 240
gatgaaactc attcaaagca tgattatgat actcaagata tgata 285

<210> 30685
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E8

<400> 30685

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gccggtacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggg ggcgccgtgc 120
ctcgggtacg cgatgggcag cgcggcgctc cctctccgcy gctgctgca gcggggtgcy 180
ctcgtcaac agccgcgcgt cgtcggcggc ggaccggcag gccacctgca actgcctcaa 240
gagcatgacg ggccggctcg gcggcggcgt cagcatggcc aacgccgcca acatccccgg 300
caagtgcggc gtctccgtcg gctgccccat cagccccacc gtcgactgca ccaagatcaa 360
ctgatcgatg gaaccatagt ggaggtagct cgtcgttgg atggcagcgt acgtggccat 420
cagcagcatg cagtcgtc 438

<210> 30686

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-E9

<400> 30686

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tccaggctca ccatggtctc caccgaggag atcctcctcg agcgcccccg cgccccaggg 120
agcaaagctg aggagtcagc tgcattctgt gatccgctgg ctatggcgag caagggaggt 180
gctgtttctc tggtttgag aacctgtggg aagaagggcg atcactggac ctcaaagtgt 240
ccgtacaagg acctggcacc accgactgaa actttcacgg acaggcctnc aacgtcagat 300
ggccctcctg caccaggtgg tcctgctaag ggagcatatg ttctncaac catgagagga 360
agtgtgata ggactggaga ctcgatgcgc cgcaggaacg acgagaattc cgtccgtgtg 420
accaacctct cggaggacac ccgcgagcct gac 453

<210> 30687

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F1

<400> 30687

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tggccgtccc gtggcggcgc cggagagtcc catggagtgt gacctcgcgt ggcgcttccg 120
acacgctgcc aacgccatat gcaccggccg gaccacatac tacaaggact accgacgggt 180
cacgcttacc cgcgacgtca acacctgcag cctcgtcgtc gacaccgtgg gtgaatacca 240
ctcgggtgtg ggtgccaaagc gcaatggacg gcacaagggg aagaaaggga agaaggga 300
gcaggatgca cctgtgactg acttcgtgcc ggtaagaca cagattaggc tggacgagaa 360
cactgncaac aatgaggctg ctggggc 387

<210> 30688

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F10

<400> 30688

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ggccagtgcc agaacgacat gaagggcctc gtgttcgaca accagtaccc ggaccaaccc 120
aagatccccg gggacttcat cctcaagtac atcttcagga tcaacgtgga ccgttccaag 180
tggatcgacc tgtcgggtcat ttccagcatg atcttcacat accgcacact cttcttcctc 240
atgatcaaga tcaacgagga cgcgctgccg tggatccgcg gccacatcgc gaggaagagg 300
atgcagaaga agggccctac cccaccatg ggcaagacgc cttcgtctgag aggctacgtc 360
gtcgatccgg agctcggttc caacgagggc tagaagtcgt gcttggttctt ttgggtagcg 420
gaaaaaaaaat aaggtgtttc tcccccccg 449

<210> 30689

<211> 133

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F11

<400> 30689

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 tcntgggcca ttccgtecgt gttgacgcat gtatttttct tgtgctatgg aaccttgctt 120
 ttggtacggc act 133

<210> 30690
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F12

<400> 30690

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 tggagtaccg ttgcttcgtc ggcgggcttg cctgggccac cagcaacgag tcgctggaga 180
 atgccttcgc ctctacggc gagatcctcg actccaaggt catcaccgac cgggagacgg 240
 ggaggtctcg cggcttcggc ttcgttacct tctcctccga gaactccatg ctcgacgcta 300
 tcgagaacat gaacggcaag gagctcgacg gccgtaacat caccgttaac caagcccagt 360
 cccgtggcgg 370

<210> 30691
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F2

<400> 30691

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 ccccgctgcc gacgccatcg gcaccggccg gaccacatac tacaaggact accgccggtt 180
 cacgcttacc cgcgacgtca acacctgcag cctcgtcgtc gacaccgtgg gtgaatacca 240
 ctcgggtgtg ggtgccaaagc gcaatggacg gcgcaagggg aagaaagga agaagggaaa 300
 gcaggatgca cctgtgactg acttcgtgcc ggttaagaca cagattaagc tggacgagaa 360
 cactgccaac aatgaggctg ctggggctgc aacggagccg gtgtttggtg ttggtgaggc 420

tgtcaatgac a

431

<210> 30692
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F3

<400> 30692

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cctacttcta cacgctgttc agagaggctc gagtaaattg catctctgtc atgcgtcctt 120
tatggctaga atctcctgac gatcaagaaa ctcatcacac tggcgaggca tccatggtgg 180
gaccagact tttagctcaa ggaatatacg actagggcca gaaatcagtg tcggtctacc 240
ttcctgggaa ggagtcattg catgactcga gaaatggatc tgcatacaag ggaagcgcga 300
cacacatgct acaggatcta gaagatagcc attccagctt ccatagaggc tgtacaa 357

<210> 30693
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F4

<400> 30693

cccacgcgtg cgcacacgcg tgcgcagttt cctgtttttt actatcaggt acatctgtgt 60
attgtgactg atgtactacc ggcaaattct tatgagtttc agaaatataa ccagcagtct 120
ggtgactagg tgtactattc actgctcaga atacacgcta tagctcgaca atgcttgag 180
gactcgggtg acttgcatca tttaaacata gttcactgtg atctgaaacc atagaatatt 240
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ttgtcagata acttaaaact atatgtccaa tcacgtgctt accgatctcc tgaggtcatt 360
tcgggtttac catatgatca gaaaattgac atttggcttc ttggctgcat cttatctgaa 420
ctgtacactg gt 432

<210> 30694
<211> 390

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F5

 <400> 30694

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 gttgacactg agttactacg ggcaaactctt tatgagtttc agaaatataa ccaggagtct 120
 ggtgacgagg tgtacttttc actgccccaaa atacaggcta tagctcgaca atgcttgaag 180
 gctgtggtgt acttgcacatc tttaaacata gttcactgtg atctgaaacc agagaatatc 240
 cttctgaaga gctacagcag atgtgaaatc atagttatag atcttggaag cagctgcttc 300
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 ttgcgtttac catatgatca aaaaattgac 390

<210> 30695
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F6

 <400> 30695

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 gggcctggaa tgatccagca aatgcagcat ccttgcaacg agtgcaaggg ttctggagag 120
 acaatcagcg acaaggatag atgcccacag tgcaaggggtg ataaagttgt gcaggagaag 180
 aaggttcttg aagtgtttgt ggagaaaggc atgcagaatg ggcagaagat cacattccct 240
 ggtgaagctg atgaagcgcc tgacactgtc actggagata tcatttttgt tctccagcag 300
 aaggagcatc ccaagttcaa gagaaagggc gatgacctct tctacgagca caccctgacc 360
 ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa caggcagctg 420
 ctgatcaaat caaatccggg cgaagttg 448

<210> 30696
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-F7

<400> 30696

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ggtgtttcct acaccttttg agctgacata gttgctgagt ttcttcagaa acatgatcta 180

gatttgatct gcagggtcga ccaggctgta gaggatggct atgagttttt cgcaaactgt 240

cggcttgtaa caatattctc agcaccgaac tactgtggag agtttgacaa tgctggtgca 300

ctgatgagca tcgacgactc cctagtatgc tcgttcagaa tactcaagcc ttctgaaaag 360

aaaagaaaag caggagctga gaacatgcca aagcccggta caccttcag gaagataaaa 420

ataagtgtta cccgcattta g 441

<210> 30697

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-E3

<400> 30697

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agaccctcgg cgtctcggcc gacttctccg acatcaacta cccatccctg aataaatgtt 120

tcattctatca cgaccagctc tagtatgctc tctatgactc catcttcgctc gtattatgac 180

acggctctacc catgccgccc accttcaacta gtgtatatat gntgaacgac aacaactgca 240

tcaataaaga actctgcact cgcattagaa aacacaggct taacgatctc gtcaatatga 300

tcagctaccc tgtcaactgc actgtcccga ttgcagcaca tgttctcaag aatgctggta 360

cttatcatga g 371

<210> 30698

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D1

<400> 30698

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 cttgggccga agctagcata attggtggaa aatTTTTTtac cgatatctgg gataatggtg 120
 gccgagagat ggccggagaa attattcgaa gaagtgagaa gggcattcac gatgctagag 180
 aagtagctga ggctgctgac aagagcgcag aagccgaagg tcaattaggt actaaataat 240
 agttcttata gtgttgtaat ctttaggctt ttaagatctg tttgcgattt gtaatagcaa 300
 tgtagccggg tcttgcttca gatccgacta aagcgccttc ggaccctcag ccgaaggggg 360
 acgacgaaat taaaagatg gccgaagata tcatggacca agttgttgat cgaactgt 418

<210> 30699

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D10

<400> 30699

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 ggcggtgcag ccgcccggct ccagtgccgt ggatttcagt attcaggatg tcaagggtc 120
 atccaaaagc ttccccaagc acgaggtgaa gcatgtctct gaccataaga acgctgcccc 180
 gtgtgcgaaa tttagtcttg atggaaagta ttttgcaact gggagtgtctg atacatccat 240
 taagtTTTTT gaggttgcta agattaagca gactatggta ggagactcta aagatggccc 300
 tgccaggcct gtgatacga ctttttatga tcacacacag gccatcaatg atctggattt 360
 tcatcctgag agtccaatac tgatatcagc tgccaaagac aggacaataa gattctttga 420
 cttttcaaaa accaatg 437

<210> 30700

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D11

<400> 30700

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cgccttcagc acctacggcg aggtcctcga gtccaagatt atcctcgatc gggagacgca 180
gaggtcccg cggcttcggct tcgtcacctt ctccaaggag gagggcgatgc tgaacgccat 240
cgagggcatg aacggcaagg agctggacgg ccgctacatc accgtcaacg agggccagtc 300
ccgcggcggc cgtggaggcg gctgcagcag ctaccgtggt ggccgaggag gctgcggcta 360
cagcggtggc gggcgccgtg atggctgcgg cggtacagc ggtggctg 408

<210> 30701
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D12

<400> 30701

cccacgcgtc cggacgtcac tcctctctct ctgggtcttg agactgccgg aggagtgagg 60
accgtgctta tcccgaggaa caccaccatc cccaccaaga aggagcaggt gttctccacc 120
tactcggaca accagcctgg tgtgttgatc caggtgtacg agggcgagag gacccggacc 180
cgcgacaaca acctgcttgg gaaattcgag ctctccggca tcccaccggc tccccgtggt 240
gtccccaga tcacggctctg cttcgacatc gacgccaacg gcatactgaa cgtgtctgcc 300
gaggacaaga cgacggggca aaagaacaag atcacaatca ccaacgacaa gggccgtc 358

<210> 30702
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D2

<400> 30702

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ctcggggccg ccacgccact cactggttcc tcagtctccg ctagttccgt cggcggcagg 120
cgggtggagaa gcgtgagggc ggacgccggc gggggctggc tatccgggct gctgggcggc 180
aagggcggcg gcgcgtccac ggcgatgatg gtgacgccgg gaaccgtgaa ggccggcgac 240
cccgtcctgc acgagcccg caggagggtg gcgccgggtg acgtgctgtc cgagaagggt 300
caaggcgtca tcgaccgat ggtcgacgtc atgcgcaagg cccagggcgt c 351

<210> 30703
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D3

<400> 30703

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ggacgcagcg ccttcctcct ccatgggcat cagcatcgcc attggcagca tgatggaggt 120
cgacgccgac gaccgccaac ccagtccgcc tcccgacgcc gactttcttca acgccttccc 180
cgacgacttc gacgaccaag acctcgactg attgccgccc ccgcttcttt gctcgcccgg 240
acccttccg ccagttggga gtcgtatacg aacctaccta cttccaagga agcaccagtc 300
atccatcacc ttgtacatgt ttttatgttg cagcactagt ggtgtttaat tgtcagctgc 360
gatcatgtga gaacctgacc tggtagatta tgtatataag aagaaataga accctgtaac 420
ttaatat 427

<210> 30704
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D4

<400> 30704

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atatggaaag agatgaagtg gttcttgaag aagaggagga agaagaaggt gaggtatatg 120
ttgaaggcga tgacatggaa gagatggatg acatggaaga ctttgaaggc ctcatgatg 180
gaggcacgga tgacgatgat gttttggatg atcccgatc aaggaaatcc aagggatcct 240
cttcttattc gaagcaaaat gtcgggaaaa ggtctaggaa ggttatgact gacgtggaag 300
aagacgagga gataaatacg aggcaaaggc aaagggcgtg agtgcgagat gtgcaactgc 360
aacgacggtt atatgatgac agatgccggc aggcattcac ttctgatgta tggtggatca 420
ttttatactt gccttcgtac tgtaacgcgg agtgc 455

<210> 30705

<211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-D5

 <400> 30705

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 gcgtgactca ttcattggag actcacgcac tgtcatgata tcatgcattt ctccctagttc 120
 tggctcttgt gagcatactc tgaacacatt gagatatgca gacagagtga agagtttgtc 180
 aaaggggaagc aatgccaaaga aagatgtgtc tttggcagtg cctttaagag agtcgagccc 240
 ttcctcactg ccttcagatg taccctcatt ctctgcatct gaagtgatga atgatatcac 300
 cgagagaaac aatttttggtt ggcccaagca gcagtatggt aaagaacggc ctgctacgac 360
 atttgttgaa cgaatgccca aagtgaaaga tgccgtggag ttcggaacat cagacagtgc 420
 ttat 424

<210> 30706
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-D7

<400> 30706

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 gatactactc aggaagaccc catggagggtc gctgatgccca aagcagattt gaactatatt 120
 ggtcttgatg gagagattgg ttgcatggtg aatggagcag gattggccat ggcgaccatg 180
 gatattataa agttgcatgg tggtagctc gcccaattgtc ttgatatcag aggaagtgca 240
 tcagaggggtc atgttggtgca aactctcaag atactgactt cagatgatag agtgaatgca 300
 attctagtga acatttttgg aggcattatg aaatgttatg tgatagcaag tggaattgat 360
 aatgcagcnc aacatgttga cctgaaagtt cctgaggtag ttcggttga aggcacctat 420
 ttataccaag gaaag 435

<210> 30707
 <211> 155

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D8

<400> 30707

aaaaaaaaa aaaaaaaaaa aaaaaaaatt taaaaaaca aaaaaaaaaa aaaaaaaaaa 60
 gggatactaa taaaaaaagt cacaacaaca aacattcaat atcactacct attttatcta 120
 tctaggtatt tttatttata tttcctacat tttaac 155

<210> 30708
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D9

<400> 30708

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 ggctgcgcgt atcaatgggtg tgaagagggtt cttctatgcc tcgagtgcac gcattttacc 120
 tgagttcaag cagcttgaca caaatgtgag cttgaaggaa tctgatgcct ggctgctga 180
 gcctcaagat gcctatggct tggagaagct tgcaaccgag gagctgtgca agcactacac 240
 caaggacttt ggcacgcagt gccgcgtcgg ccgcttccac aacatctacg gccctttcgg 300
 aacatggaaa ggtggccgcg agaaggcacc ggctgccttc tgcagaaagg ctgagacatc 360
 cacggagagg tttagatgtt ggggcgatgg tctccagacc aggtccttca ctttcacga 420
 cgagtgcgtg gaggggtgttc tgagat 446

<210> 30709
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E1

<400> 30709

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 aatggcaaag agtcagagcc gcccataaat ggggcgcaac ctgaagtacc atccattgcg 180

ttcttaaaga aaagaattaa aacagttcta aggtcctgtc gagataggaa ccctaaggag 240
 agcacattac gctctactta cgaggatctt caccttgaaa cggcgagcgc cgaaaagcgg 300
 gtaaaaatcg cccagggcct agaaaatctg tacaggcgaa gccaatatct cgggagtaac 360
 acaaggcagc agccccatac cgacttgatt attcagatct gcgattggga gcgtacgaag 420
 agggtaaaga attcactggg gta 443

<210> 30710
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E10

<400> 30710

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 aatggggttt gttgcatgct tacacaggct acttacatca agaagtatgg catcacatat 180
 gatggcggtt cctgtcgctg ttgggagaat aatgggtttg cttaggaatg gttcgggaagg 240
 agtagctgct gaagctgctg gacttgtggc tatgctaatt ggtggtgggc cttgtgattc 300
 atctatctta atggatacaa ggggagaatc ccatgccacc tacatgcatg caaagtctgt 360
 actattctcg caaccaatgt atgttccgat cttgttaac cggttgaagc caatatcggt 420
 gtcaccattt gtatctct 438

<210> 30711
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E12

<400> 30711

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 gaactgcaag tcgccccgca tcgatggcgc ccaaggccga gaagaagccc gggcggaaga 120
 agccggcgga ggaggagccc gctgccgaga aggcgccggc cgggaagaag cccaaggcgg 180
 agaagcgtgt cccagcaggc aagtcgcccg gcaaggaggg cggcgaggga aagagggggc 240

ggaagaaggg caagaagagc gtggagacct acaagatcta catcttcaag gtgctgaagc 300
 aggtgcaccc ggacatcggc atctcctcta aggccatgtc catcatgaac tccttcatca 360
 acgacatctt cgagaagc 378

<210> 30712
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E2

<400> 30712

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 tgttgtagt ttcttttttt tttcccgctt ctttgtctgc gaggatttat tggtaaatt 120
 gtgtactagt caattgttat ggtacagcga aaaagagaga agaggatgat ggcattcgca 180
 gcgaggtgtt gagattccgt tgtagccatg catttgcagc cgattgtttg gtactgggtca 240
 aagttctgta gtagtcataa tactctgctc aaaatataga aagaagaatg gcttcgtcaa 300
 tatcagatgt tgaga 315

<210> 30713
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-C9

<400> 30713

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 acgaggccgc cttcgacgcc gtcgtgtgct tcgagaccat gaaccgcac ctgttcggcg 180
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 ccgggctgcy cgccgctggc tccaaccac gccggacgct gttcctggac gacagcgaga 300
 ggaacatcgc cgcggggaaa gcgctcggcc tncgcaccgt cctggttggc aagagcgaga 360
 ggagcaagga agcggactac gcggtggaga gcatcggcgc gctccggcgg gccatcccgg 420

agatctgggg cgaggccgct tgacgtcct tcgaca

456

<210> 30714

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B5

<400> 30714

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agagcttgct tcttacatgt ctcgcttggc ctcatggaa tctattcgga attcactggc 180
agaggagtgt gtgaaactga cagaacaatg tgaaaagtta cggactgaag ccgctgctgt 240
gcctggctta agggctgaat tggaagctct gaaacaaagg cacttccaag ctctagaact 300
aatgggggaa cgtgatgaag agttggagga gctaagaaat gatattgttg acctaaaaga 360
gatgtacagg gagcaagtgg atcttcttgt tagccagctc caggcattgg gtgctcgtgt 420
at 422

<210> 30715

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B6

<400> 30715

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gctcagcagg ctggtgttcc cgccggagct cacgtacctg gacctgtccc acaacctcat 120
ccgcggcacc gtgccgtgtg cgctggagcg cctgtccacg ctgcagaagc tggacctcag 180
ctacaaccgc ctgtgcggcc cgctcccca ggggcacggc gtcacaaagc acgggtgcaa 240
gccgtacgcg cacaaccagt gcagcaaagg gaccccgctc gcgggatgcc aggacctgga 300
gtgagtgagt gagccggtgg ccatggtttt ctatactctg ctatgctctc cctcgccggc 360
gttccaatcg tgggtgtgtg tgaaggacga cggtacggtg cctggttttag ttatagac 418

<210> 30716

<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B7

<400> 30716

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gcgctcggca gccacacgct gcacgtcggg gacctcaagc acacgctcaa cttgggagtc 120
tgatggccga gagggggaatg gctaccaagt accaacgtga aggcagttgg aatttgaggg 180
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aataaaggct tactgttggg aaagaattgg atccacgggc agcttttttag tcatttgttt 300
ggaggcattg gattcattgg agggtcgatt tgtgattgta atcacgataa atgtaatgga 360
ttggaaattc ggaagggggc agatctcttt ttcatacaaa tcacgtgatt tagtg 415

<210> 30717
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B8

<400> 30717

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tgagcatcct ggtggagacg aggttttgct agctgtaact gggaaagatg ctacagctga 180
tttcgaagat attggccaca gtgattccgc aaggggacatg atggagaagt accacatcgg 240
gcagatagat gcttcaacaa tcccagcaaa gcgtgctcat gtgcagcccc agcaagcacc 300
cagccatgca gacaaggata atgacctccc catcaagatc ctacagttcc ttgtgcccatt 360
tatgatcctg ggccttgcat ttggtatacg gcagtacacc aaatcagagt agtaactatt 420
cttag 425

<210> 30718
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B9

<400> 30718

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atttcgctta tgaggctggg cttcaggaga agttccctcc agttcctctt ttgaagtcct 180
acctggaaga ctctaagaag acatcaaccg ctgcttcaga taattcaagc actagcagcg 240
gccaatcagg gagcaatgtg aacaagaaag aacagtctgc actgcgagct gtcacatcaagt 300
gtgttgagga tcgtaaacta gaagctgagt ttccactgga ggggtcttcg gaagcaactt 360
tgaggaacta gagaaa 376

<210> 30719

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-C1

<400> 30719

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atggcgccgc cgcgcgcgc tctactcgtc ctgcgcgctc tctcctctc cctctccctt 120
ggggccgcct ccttccattc cgacgagctc ctccctcaacg atgacgaaga gttcgagggc 180
gtcgtcgcgc gcccttcgc cccctccccg ccggcgggccc cgggtggtctc ctccctccgc 240
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ctcgagcacg accttggcga cggcaagggc ttcgtctcag ctggaacctt ctcgccccgc 360
ctcaagacct tcgcccacgg cagcagacc ctactaaac ttcgctttac aaggaatgat 420
tttactgang atgataaaac cgcgttc 447

<210> 30720

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C10

<400> 30720

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 agccgctgct tttcgttcgt cttcatccta cgcgagggcg aaaccacaa accctctccc 120
 tcctgtactc cggccgacac atccaggggc gatgacgctg ggtagctccg gcgccggatc 180
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 atggactggc accatcattg gccctcaciaa tttgctttgt gacaaagact atccggagaa 360
 gccaccatct gtcagattcc actcaagaat caacatgaca tgcgttaatc acgagacaag 420
 aatggttgat ccaaggaagt ttggtttgc 449

<210> 30721

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C11

<400> 30721

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 cggcgcggcg ggccggcgacg ggcccaggcg atgctcgcag tgcgggcacc acgggcacaa 180
 cgcgcgaaac tgcacggcgc ggcccgtcaa gctcttcggc gtgcgcacatc gggacaagcc 240
 catccggaag agcgccagca tggggaacat cgcgcacctc gccgcggagg gcagcggcgg 300
 cagggaagaa gggtagggct ccgacgggga gcgcccgcac aagaagcgaa gtgaggcatg 360
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<210> 30722

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C2

<400> 30722

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gaacttcata aaaaagaaca aatgctttgt gaagcaaata agtgtcttcg aagaagactg 180
gaggagagca accaggttat atggcagcat gcgtgggagc aaagcgagcg gcattctgaa 240
gtgcagccgc agcagctcaa tggcaataac ttcttccatc ctctcgattg tgctggtgaa 300
cccacccttc agatagggta tccttcatag gcactgacta gtcctatgcat gaccaccttg 360
ctgccctcgt ggttgcca 378

<210> 30723
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C3

<400> 30723

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tcgttcactg gtacgtcggg gagggtatgg aagaggggtga gttctccgag gcccgtaggg 180
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gtgacgaggg cgatgactat tgagtagccg gttaataatt agttcgctgg tgcttaatgg 300
ttgagttatt ttgagtatac tctgtatggg tccactccat tgcggtgctgc tgctgtgtgt 360
ttccattttg tattttgtga taaattgttc gtagccccct attggccatg attgttggtc 420
ata 423

<210> 30724
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C4

<400> 30724

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tttcatgggc agccagcaga aatcaagcat ggtagtggtt ttatagcagc aataactagc 120
tgcacaaaca cctcaaatcc tagtggtatg cttggtgctg gtctttagtc taagaaagct 180
tgcgagttgg gtcttgaggt taaacctatg gtgaagacaa gccttgcccc tggatcagga 240

gttgtcacaa agtacttgct tcagagtggg cttcaagaat acctcaacca gcaaggattc 300
catatcgatg gctatggctg taccacttgc attggaaact ctggtgatct cgatgaatcc 360
gtatcaactg ccattacaga aaatgatggt gttgctgctg ctgatatgtc gggtaaccgt 420
aacttcgagg gtcgtgtgca ccccttaac 449

<210> 30725
<211> 202
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-C5
<400> 30725

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ttacaactta cgtcgtaaga ctttattccc ccgctttgct actgggttat taagtttgtc 180
gttattgttt tcttgatctc aa 202

<210> 30726
<211> 253
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-C6
<400> 30726

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaatata aaaaaaaaaa acaaaaacaa 180
aaacataaat aaaatattta taaaatatta aataattaca aaaatattat aaatataaaa 240
aaaaattaca tat 253

<210> 30727
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-C7

<400> 30727

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actagtatgt tgcgagggag cgagtagacc gtgtgttttcg ctatcgtggg actagaataa 120

gccatgccaa tgaacatgag ccgaatagag gctacgtact gttattgtat cagtactagt 180

accctatata tatggggcgca ctacagttct gtgatgtaat ggattctgct agtatttgac 240

tct 243

<210> 30728

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-C8

<400> 30728

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agaaggttaa tgcataatgat gtggacgata tggttatgcc attacatcgg tacatcaatg 180

atccagttgc ccatgaaatc attcataatg gggctacctt tcagattact gggttaacga 240

acaactcata ttttgatgga gcacatgagg ttcgacattg tgtcaggaag catccagatc 300

ttggtcgtat tgtgcttgaa gttgctaaga ataggctgga ccagatgcta tatgtaggac 360

ttacggagga tcatgaagaa tcagcgaggt tgtttgctca tatggtagga gcacaggtgc 420

tttcacaatc tngacattg acttttagat 449

<210> 30729

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B4

<400> 30729

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atcagtcaag ctgggtatca ttgaagacgc aactaacagg aaccgccttg cgaagcttct 120

tagatttgaa agtaccaagt cggatggcaa acttgccctc cttgacgagt acatttcaag 180
gatgaagcca gggcagaaag acatcttcta cctcacggga agcagcaaag agcagctgga 240
gaagtctccg ttcctcgaga ggctaaccaa gaagaactac gaggtcatct tcttcaccga 300
ccctatggac gagtacctga tgcagtacct gatggactac gaggacagga agttccagaa 360
cgtgtccaat gagggcctga agctgggcaa ggactcgagg ctcaaggacc tcaaggagtc 420

<210> 30730
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A1

<400> 30730

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acctttctca gctccggcac ggctgaacag cacctactga agttgctacc actctcgaaa 180
ggaagaacac agtgcagatc tgcagcgggtg agagagagag aaaacagcaa ccaagtgtag 240
cgttacagtt acacctgctg agttgttgct ctttgcaaaa ctactgtcta gacttcgcct 300
ggcaattagt gtactgatag cgaggtaaaa aaagttagat tatgtgttag cgacacacat 360
cctttcacct tcttttatct ccctcgatta cta 393

<210> 30731
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A10

<400> 30731

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gagtttacct tgggattact ggaaaaagga tatcatcacc tgctgatgct atgttcatag 180
gccttggtac tcactatgta ctttctgcaa atttgggttc actcaaggag tccttgctga 240
gtgctaactt caccaatgat cctcatagag acgttgagtc agttctgaca ggatacaaga 300

aagaaccaga gtctgaacca caactaaaaa agcttttgcc atatatcatt tcttctttca 360
 gtcttgataa atcagtggct gaatctgtgg aagagctaaa gaaatgtagc cgaagtgggtg 420
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<210> 30732
 <211> 412
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 <213> Zea mays
 <223> unsure at all n locations
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 <400> 30732

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 ccgctcccta cacaccgcg gtccgggtgtg aacctccatg acgtctgcaa ccactctccg 120
 atctgctgtc gtgacctcat ccagccgtgc tgtggcagtg gatcgagatt cgctccagct 180
 ctgattatcc ccacgtccag agttacaaga agatcaagct tggttgtggc tgctgctgtg 240
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 actcagggtgg tcttttattc tctatggtgc ttctaggata catctctctc agaagcacca 360
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<210> 30733
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-047-Q1-K1-A2
 <400> 30733

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 catctacgcc ggcctcgctt gctcggcggc gcagtgcggg gcttcttctt cggctgcggg 120
 cacgcgcaga ggggctgtt caacggcgtc gacgggctcc tgggcctcgg ccgcgagcag 180
 ccgtcgctcg tggagcagac ggcgggcacc tacgggtggg tcttctccta ctgcctccc 240
 acgaagccgt ccaccgcggg gtacctgacg ctgggcctgg gcgggccgctc gggcgccgcg 300
 ccgggcttct ccacgacgca gctgctgccg tcgccgaacg cgccgaccta ctacgtcgtg 360

atgctgacgg ggatcagcgt cngcgggcag cagctgagcg tgcccgcgtc ggtgttcgcc 420
ggcgggaccg ggggtggacac cg 442

<210> 30734
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A3

<400> 30734

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gcggcctcct gcctcatcgc tggattcggg ctctttcttc cagcagttgt ccggccaatc 180
ctggattcat ggcagaccgc ggaacaagtt cctccacctc ttctaaatga tgtggttgca 240
ggtgtcaccg gcaagaaaaa gtagtgaact tgcattgttt tctcatgcc aatgttgcccc 300
acattttctt ccccggtgtt tttctggcga ccagattgga aggcctttcc caagagtcac 360
ggtcttgaac tctagatggt atccgcggaa taatcattgt accttgatca tatactgcaa 420
tgtggc 426

<210> 30735
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A4

<400> 30735

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ggaaggggga cataaaaaat ataggatacc agctaacgta cgtcgtcttg caaactctta 120
aactctttta tatggccacc taattacaac tcaactggccg ctaaaatata acgta 175

<210> 30736
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A5

<400> 30736

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gttcaggaag tctgagccta ttcttgaggt caacaatgag cctgttaagg tggttgtcgc 120

tgacaacgtc cagcacttcg tcttcaaata tggcaaaaat gtccttattg aattctatgc 180

cccctggtgc ggacactgca agaagctggc gcccatcttg gacgaggcag ccaccactct 240

ccagagcgac gaggaagtcg tgattgctaa gatggacgct actgccaatg acgttcccag 300

tgagtttgac gtccaaggct acccgacctt gtacttcgtg accccgagcg ggaagggtgac 360

atcctacgac agcggcagga cggctgacga catcgctgac ttcataaga agagcaagga 420

ga 422

<210> 30737

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A6

<400> 30737

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gcgtgccctc caggcgagca ccctcaaggc ctgggctggc aagggtggaga acctggagaa 120

ggctagagct gccttctctg ccaggtgcaa ggccaactct gaggctaccc tcggcaccta 180

caagggatgat gctgccgccg acaccgagag cctccacgtc aaggactaca agtactgagt 240

tgcttctctt tgcggtgccg ttttggaact cctgcctacg agctaggttg cggagtgtgg 300

tttgctcgtt agagcttatt ttcggacatc caaaaaacat gcttcctatg tgggatgatg 360

gttatcttta tatttgtatg ttaattagtc tctttgctgg taaatttcgt gtaagttggt 420

cctgccgatg gagaatcgag cagc 444

<210> 30738

<211> 154

<212> DNA

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<223> Clone ID: LIB3067-047-Q1-K1-A7

<400> 30738

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ctttccagat ttggtatgc ttgtagttaa atctacactg tagataaaga aatgtttgtg 120
gagaagtaaa aatcccttat ttggtcgtca tgggt 154

<210> 30739
<211> 356
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-A9
<400> 30739

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ccaatacctg ctgcaactgca tgtttatcaa aagttatcgc tcctgctcgc ggaaagtggag 180
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tttggtgttt ggttggttgt tcggtgaccg aatcgcgagc tggacgcctg tttaatccgt 300
gcttatacat cggctgaagt aacagcaata agagggacaa tccgtagctc tttccg 356

<210> 30740
<211> 396
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-047-Q1-K1-B1
<400> 30740

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ctagccaggc aagcctcctg ctccagaagc agtcaagga tcttgcaag aaccccgtag 180
atgggttctc cgcaggggtt gtagacgata gcaacgtctt cgagtggcag gtcaccatca 240
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agaactatcc caacagcccc ccatcagtaa gatttacttc tgggatgtgg catccgaatg 360
tttatccgga tgggcgtggt tgcatttcta ttcttc 396

<210> 30741

<211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-B10

 <400> 30741

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 tatctcgtct tggtgacatc cttgcagttg tcgctgaac aagtaatcta tgatggcaat 120
 gtttgcttgg tcatgaagta ttattacttt cgttgaaacc gtgatgctat taagacttaa 180
 ttttttttat ggaacatcga atgtaaggca tacatggtt 219

<210> 30742
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-B11

 <400> 30742

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 gaaaaaaaaa aaaaaaaaaa aactaaaggt gaaaccattt atactatcaa aacttaatta 120
 cgcatacaga acacataaaa gtaaagcaaa catggtacaa aaaaaaaatt aacagaccgc 180
 aattgtccaa cgatctaaat gataaaacct t 211

<210> 30743
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-047-Q1-K1-B12

 <400> 30743

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 aaaaaaaaaa agaaaaagtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataatac aacttaaaac aaaccctttt 180
 aaactccctt tactaaaaat tttataacca aaatataaaa cattcctaatt ttaaaaaacc 240
 ttctaataa taaaaaatat cccaattata aaaatcccca atatcccaac tctcaaacac 300

cctaataaaaa

310

<210> 30744

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B2

<400> 30744

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gggaggacaa ggcaagctgt ctgcttattt gtctatgttt ggtatctcaa gtcctgcgga 120

ctgtttctgt tggcacaaga gggaataaat gtgttcacgg acctgttatg cttttctctt 180

gtcatattac cttgctctaa acatTTTTga tgaagctgtc aaggtaatat attttctcta 240

aatatttagc ctaacaaaa 259

<210> 30745

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H9

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gcgcccgtca agaaggccac gtacaggaac tccaaagctg gcctccagtt ccctgtggga 180

aggatcgta ggtttctcaa agccggcaag tatgccgaga gaagcggcgc ccgcgcccct 240

ggttacctcg atgccgtgct cgagtatctt gccgctgagg ttcttg 286

<210> 30746

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-B3

<400> 30746

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ccaccaccac aagcagcttc cctgcacaat gatcctgcc aatacagtc acattattct 240
caacctgcat caacgtcatc aagtttgctt tcagctgggg gtgcagtttt accagacttt 300
agctcccagg cagttcaata tggggttcag aggccaacct ttcagagtaa ccttcctctc 360
taccaaccag ggaatactcc gtggggctct tcagtggcac ctncagcagg aaaatgctc 419

<210> 30747

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G3

<400> 30747

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tgacttgtga ggaggaaggg aggaagaaag cggatccatg gcgtcgaagc ggatcctcaa 120
ggagctcaag gacctgcaga aggatcctcc cacctcttgc agcgcaggcc ctgttgccga 180
agatatgttc tactggcagg cgacgattat ggngccatca gatagcccat acccctgtgg 240
ggtaattttg ggtaactatc aactttcaac cgaactacca attcaaccaa ccaaaggtgg 300
attcaagaac aaagggttaac aaccgattt taaccagcac cggagccttt ggcttgaaat 360
tttgaagaa ccatggaacc cttg 384

<210> 30748

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G4

<400> 30748

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ataggcgata tgacctagtt gctgacgatt gctggaagat gcacgagctg agaccgcagg 120
caaaatctgt tgatgatgca aaatcctagt tacttacaac tgtgtcacat gagatcacia 180

cacctatgaa tgctctcctc agaatgctgc atatgctttt aggaacagat ctaactatga 240
cacacaatga ttatgcacaa actgctcaaa tgtgtgccat agcattgatc actctgctga 300
atgatgtact tgagcgatca acaattgtgg ctggaaagtt atagctt 347

<210> 30749

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G6

<400> 30749

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gcagcttgct ctctctgacc atactgaagt ttgcggtgaa tcgaaattct ctgaactcgg 180
tgcagattca ctggacacgg ttgagattgt gatgagtctc gaggagcact tcgatattag 240
cgtggaggag tccagcgcac aaacaatcgc cacagttgaa gacgccgcgg acctcatcga 300
caagcttggt gctggcaaag cgtagttctg taccttctct atcgttgtcc taccactcta 360
gggtctatccc ttgatctaag tttctatggc cttaagattt gtgattttct ccgcacttgt 420
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<210> 30750

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G7

<400> 30750

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gaactcaacg agctgtttat ggatattctg 150

<210> 30751

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G8

<400> 30751

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gcccgtgatg gagctaggtg ctcccgtcca tagttttcac aagatgggct gccaatccaa 120
gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180
tggaggctct ggaagtttca caacaacaca caaaaaaagt cttcccaaaa gaagtcccag 240
tcgacctata gctatagtcc tcattcttga cgcttcaggt tcaagaaaag gaactttatg 300
atggaaaaat ggacttcagt ctgctcaacc ccttcatgtt actgtgccgg ccgagatgtg 360
cttggtcgct ggtggttgag atttcagatc aggagctctg gagtctggac tctggactgc 420
agcgagccaa atcagtcacc gggt 444

<210> 30752

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G9

<400> 30752

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gataggcaaa ttttgttggc atctgaagtc atggtttctca ttggtataat catgagcttt 120
cgtttcacac ctactactc cattccgcaa tatgtcattt cagctctcat cacatttgta 180
ttttctgagg tgcttgaagg agtgaatctg tccttgctct cagagtgat gtcgtcaagg 240
ctttcccagag ggacctaaa tgggtgactc ctttcaacag aggccgggac gttggcccgt 300
gtagtgcag acgccacat tactgcagcc gggtatctat gcacggacct ncttctcaat 360
gtcactcttc tgccacctct tgtgatctgc atagtctcca tcgcagcatc actctacac 419

<210> 30753

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H1

<400> 30753

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 ggtactgtgt acacagagac tgtagaatca cccaagccca aacttggaat gtgggggggcc 120
 atacaattta cactgtatag tctgtttctg tgaaatagct gaaaagttca tgggaagatc 180
 gtgtcaatat ttcatatata tgtatcttgt ttgacacaga acagacggag aaaaatattg 240
 gtttcgcgca tatatgaaat ttcaaaaatt tcgcttttta gaaatttggt acaatgctga 300
 atggctttca agaacttgcg tttcacaaaa accttcaccc tgttttgaaa atgggacccc 360
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<210> 30754

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-H10

<400> 30754

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 aatggtgcta tgccagctac agtgagggtt tcagttcctg gatgcacttc tgcgccgtgc 120
 gcatatttgt agagagcatt cttagatacg gtctgccacc atcgttcctg tctgccgttc 180
 ttgctccgtc taaaaagggc gagaagaaag tgaggagcat cttagaggac ctttgccgga 240
 atgtccatag tattttattgg aaaggcgaag atgacgtggc agttgctggt ctgggaggtg 300
 aatcagaggt ccacccctac gtctcattca ccataaactn tgtttgagca ttactggtgt 360
 tacgccgtca agtaaatcga aacgatggaa tggttctgta cattgctagt gttac 415

<210> 30755

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H11

<400> 30755

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 cctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

tttttttttt tttttttttt ttttttaaag gaattctaac atcgttcgtg tatacctttc 180
 tttttacccc tcaagggaaa aaactaaagt tttgttcata tcccaccaa tcttttccat 240
 tattcttggg gtgacttgat tttttaccca tcccttgaac tttgctgggc cgaaatccga 300
 aacctttgg 309

<210> 30756
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-046-Q1-K1-H12
 <400> 30756

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 gaccatacag cctatgagtt cttctcagaa gagtgatcta atgttagaac ctaagaacaa 120
 tcggctaagg ttgtgtacga ttgtgatatt tgcacgaatg atggttactt agtcgtgtta 180
 taccagggta tttgtatggt tggtcagggtg gattgcctgg ataaatctct ctgttgtaat 240
 ggtcgagtcc cgaattatgt ttgtaatggc cgtgtcccga attattgtac tgggtgtgcat 300
 tattagttga aatgcaacag aagtgtatgt ctaaa 335

<210> 30757
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-046-Q1-K1-H2
 <400> 30757

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 gtactgtgta cacagagact gtcgaatcac ccaagcgcca cttggaatgt ggggatccat 120
 acaatttcca ctggatagtt ctgtttctgt gaaatagctg aaaagttcat gggaagtctg 180
 tgttaatctt ttttatatat atatcttggt ggcggcagaa cagaagcagt caaatatttt 240
 ttttgcgcac atgtgaaatt tcagagatgt cgggtggtgag agataggata caatgctcgt 300
 tgtatttcag gaacttctgt aacacgagaa cattcatcat gtgaaaaaaaa tgtaactcaa 360
 t 361

<210> 30758
 <211> 201
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-046-Q1-K1-H3

<400> 30758

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 tggcccccttg tgaaaggggt cgtgtcgtga ggggctgctc aaagtctcat cgagaaatng 120
 catgccgtct caagcttctg cgtgcccttg cctgaggacc tgctgactca ggccccctgat 180
 tatgtnncaa gctgnngtga a 201

<210> 30759
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H4

<400> 30759

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 gttctggaca actgtctact tgttaagcac taaaacggca cgcattggtgc attgatgata 120
 tcagtatcag gcatacgaat cagactccac atatctagtg gcgggttgct cctacttgag 180
 taccgactcg agagcctcgt gcactgggtc ggcctatatg gtactctttg atctgatgtt 240
 ataaacctat gtggctattg ctaggtaatg ctaaaga 277

<210> 30760
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H5

<400> 30760

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 cgcacctcgg ctggggccac tggtagacgc tgcgggagct ggaggaggcc accgtcgcgt 120
 tcgtccccga gcacgtcgtc ggcgagggcg ggtactgcat cgtctaccgc ggctcctcg 180

ccgacgggcta ccaggtcgcc gtgaagaacc tgttcaccac caggggacag gccgaccgga 240
 agttcagggg gaaggtggag gccatcggcc gcttcgggca caggaatctg ttccgggttac 300
 tggcctacgt gcccaagggc gcccaacggg tcttgggggc caa 343

<210> 30761
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H6

<400> 30761

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 acagaagatt aagcgaccgt ctgtttcaag aattattcat acagttactt gtgattcttt 120
 caagcagcag ttacaaaatg tccaagttgt cttggagggt gcccagcacc cgtaggacgg 180
 tgtccacgac gacaggggtc gcgcccagca tctgtgagc ctgcgcctcg acgctagagc 240
 ccaagacgtc gccacgaac ctgtacacct gagcgaggcg caggctcgcc ggagacaggg 300
 ggaactgaac cgtctcgacg tccggcgcca gtgtaccacc atcgtcggcg caccaggccg 360
 ggcaaccggc ggcagagcgg tgagggtgcc gggcgggcac ggcgaggacc agcttcttgt 420
 ccgctctgag gaagtgtttc tgggcgtggc 450

<210> 30762
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G2

<400> 30762

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 gacatnctgt gaagtgaagt atattcagca aggagctgaa ggagtagtag aagtnnggaag 120
 aagnttctgt atntggacaa ttggtaaaca aatctataga tcatccacat atgcctgctt 180
 gaatacacia tagcctgact tagggcatcc cgttctgcta agggaagcca ttctgcaaaa 240
 ataattccat gtaatgtagt aatgtacaag tagaactt ctttcctttg aggtcacaac 300

gaagctaact taatcctctc ccccccttgt gtcaggacaa aaaacgtgca aataggcttt 360
 gtagttgtag ttcgtttttg ctaacatgta tacggttgac cattattttt tggagaagta 420
 tacatcaaaa gtt 433

<210> 30763

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H7

<400> 30763

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 actgccttct gttgccgtta ctctgtggc aaaaaatact cggcaaaaga ggaggccgc 120
 agttgattcc agatcatcaa atgcaattcc ctctggaaac ggcttcacag atcaatttaa 180
 catcattcag ggtgtcagcg acgtatcaat ttcaggcaaa gtaagaaata tccaagataa 240
 tggcttcata gatgaagttc gcactgggca gccatccgtg ctaacagctg ctactgccaa 300
 cggaccagga catgacaaat gtgcaaatat taccagacat ggttatgggtg gaaaccacca 360
 gggaaggacc actgggacga cttacctttc cagaggatga accaactt 408

<210> 30764

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H8

<400> 30764

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 catccctgtc ctcccgctcg ccggtgcgcg cgcttttcta gggtttccgc tgccccagcc 120
 gccaaacccg ctcacctctc gtcagcggcg atggcgctcg cgtcggtgtc ggccccggtg 180
 gcaggggcag gggccggggg cgggaaggac gaggagctcg ccgatctggt ggggcgcctc 240
 atggacgcc tcgctcgcta cgctgatcgc ctgcccttcg accttgatcg ccagacactt 300
 cgttcactta ctacacttgc tgcgatctcg atcacacttc tgtttgctt gaaaaatgtt 360
 gagagcttcc taagagc 377

<210> 30765
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E6

 <400> 30765

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 cggccgagga ggggtgccgtg atcgcgtgcc acaccaagga cgagttcgac gcccgcatgg 120
 ccaaggccaa ggagcagggc aagctgggtg tcacgcactt catggcccc tggtgcagtg 180
 ggtgccagat gatggcccc gtgtacgcgg actgcgccag caagtaccct tccgcggtct 240
 tcctcgaggt cgacgtcgac gaactgctgg aagtcgcgaa gatctacggc gtccatgtga 300
 tgccgacett ctgcttcac aggaacggcg agacgtcga gagctttgct accgtcgacg 360
 aagacgagct ccgggacgcc gtcaggaagt acgcc 395

<210> 30766
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E7

 <400> 30766

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 caaatccoga atccctctcg aatttctatt taatgttctt gttcttcccc tccgatccga 120
 tgtccccaac tgcgtcccc tcggcgatca aacaccggat cgcggcactc gccgccgttg 180
 aggaggaggt ttccggcgct gcttcacgag ccttgccgct agcaccatga ggaagaagct 240
 ggacacgcgt ttccccgttc ctccgattaa aaggatcatg caaccagatg aagacgtcgg 300
 caagattgct caagctgtac ctgtcctagt gtccaaagca ttggagctat ttctgcagga 360
 ttaatgtgat aggacatatg at 382

<210> 30767
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E8

<400> 30767

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caccacaggc aattcgaccg ttcacagaga attgaatcat ggaaggaggg ggtagcaaca 120
cgcccttcta ccgcggaac agcaccgcac tcgccaccaa cccttctgct gctgctgctg 180
ctgctgctgc gaatggggca cagaaagggg acagggaggg tgccatcgat gccgagatag 240
tgaggggtaa cgacctacca gctcatagtt cctacgccat acaccgatg aaggtgctaa 300
acaaacttcg tcctctgctg tccatcaaga agactacatc tcaagatgag gagctcgaac 360
ttctcttcgc aagcctttca atctaaagtg tctccttgat aagccagtat ttttaaccctg 420
ctaagggagc ccactcttc 439

<210> 30768

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E9

<400> 30768

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cttcgcgctc ggcgactcca tctgggtcct gtaccgcgcg agccaggact cggtgctgca 120
actggcgccg gcgggcttcg cgttctgcga cctgtcgcgc cctgtggcca ggctcggcga 180
cggcaactca ttattcaacc ttaccgcgcc cggtcgcgcc tactacgcca gcggcgcgcc 240
gggccactgt cgcaagggcc agaagctctg ggtcgatgtg cccttgccca acgggacctg 300
ccttcagccc tacgtcaccg acctcgacgc gctcgcgcac accctcgtcg tcgacccgaa 360
cgacgggttc gcgtcc 376

<210> 30769

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F1

<400> 30769

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 ggcggtacgc ttatatgact actggacggc gtcttgctga caggaagagt gactagttcc 120
 agatgaacat cacacagagc gggtctgccc ctgagaccac agtgacaaag agcaatgact 180
 accctgtttg acctgtagca ctgggagaat tcacatttg 219

<210> 30770
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-046-Q1-K1-F10
 <400> 30770

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 gcagcagcggg tggaggcggc ggatctgggtg gtggtggaag cggtgggcggc ggcggtatctg 120
 gctgcggggcc gacgagcggg cgttgccccg tggacgcgct gaatctgggc gtgtgcgcca 180
 acttgctgaa cgggctgata aacgcgaccc tggggacgcc gtccaggacg ccgtgctgca 240
 cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc gtctcaggg 300
 ccaacgtcct gtgcatcaac ctcaacctgc ccatcaacct cagcctacta gtcaactact 360
 gcggaaggcg cgtacactcg ggcttccagt gcttctgact atcacacgcg catcgatcga 420
 tcgatctgg 429

<210> 30771
 <211> 173
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-046-Q1-K1-F11
 <400> 30771

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 aggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaataacaa catatataaa atatctaaat ata 173

<210> 30772
 <211> 198
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F12

<400> 30772

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

taaaataatg ttaccaagca tttaaatttt atttaattgt aaaaacccta tactaaatca 180

acttactaat tcatttaa 198

<210> 30773

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-F2

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ccaagtatat cagtgattgg actgaatgga gttctgctgc cgaatcatga tggatatatc 180

aactctgaaa atctgaatga aagcattgag aaagcgtggg ctgctcttca tctacaggag 240

acagcagcga ccttgttgac agcatcactt gctacaagaa atgctgaacc tgtgaattct 300

gctactactg ttttgtcagc tcaaggcggc tcttctactg tagacaatcc ttctgattat 360

ccagtcaatc accagatggt tctggtgcca gtgaagtngc tcattcaact gatc 414

<210> 30774

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F3

<400> 30774

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gtggcggtg tacccttttg aggcttgcac caaaagttga tgcaattata gagacccttg 120

agagcgatga acataagggt gctgctgaaa ttgtaaggaa gtgcttgagc tatccactta 180

aattgattgc aaataatgca tgcgttaatg gcagtgtggt tactgaga

228

<210> 30775

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F4

<400> 30775

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aatctggaag cagctaata gacctcgctt cgatcatgaat catttgctgg aggctaaaga 120

atagccgatg cttgcaagtc agcgtcaaaa tcccattctc tttgttttaa ctccagaagt 180

tctacaccgc catcaattat ctgtaaagtg cgtgttaaata ttcttgata ctacattaga 240

tgtaccctca ggttgagatc aacaataggt ctgcggaaaa tgacgagcaa actgtgccac 300

tgtctttacc cgtaaattctc atggatcatg acaagttttt ttatgtacc caatatgatt 360

aaacttactt gacaaaacta aaaatccgta tcatttaaca aaaagg 406

<210> 30776

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F5

<400> 30776

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ctgacacctg acctgtacgg gctacgatc tggctgacct ctgtcagata atgaactttc 120

gaggatcaat actgagactc tgaaacggtt accgcattcc ttgaaggcag catgcacgca 180

tgtctcccaa tgatcacgca ga 202

<210> 30777

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F6

<400> 30777

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 gggtaaataa aaaaaaaaaa aaaaaaaaaag taaatggaac tacatgttac tttattaagc 120
 ata 123

<210> 30778
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F7

<400> 30778

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 agtttcagag ctccaggaatc tgcgccatgg cgagtgcgac ggagaccttc gcatttcagg 120
 ctgagatcaa ccagctgctc tctactcatca tcaacacctt ctactccaac aaggagatct 180
 tcctccgcga gcttatctgc aactcttccg atgcgctgga caagatcagg ttcgagagtc 240
 tctactgaaa gagcaacctc gatgcgcgac ctgagctttt atccacctgg tccaaaccaa 300
 ggc 303

<210> 30779
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F8

<400> 30779

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 cacttcccgt gacaagcaaa agttgtttgt ccgattcttt ggtgtgctct acagagtgtt 180
 caacaagatg aacttcatgc tgctgttgga cgacgattgg gagccactga tggataatta 240
 ccggcctttg ggaataaaat ctctgaggtt cagcacattt tctcttgga atgtgtcacc 300
 aaagatagaa gagcaaaaaa ttcagtacac cattcatacc attggaggaa gcgtaactgc 360
 agttcatgga ttttttgtcc aacttggtgt caatgtggat acgagtgact gggagcttca 420
 aactctggga agac 434

<210> 30780
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F9

<400> 30780

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ggtttaattc catccgaatc tcaagattgc ataaatgtca gccatattgt cacacgtcaa 120
tcacttacca ctacaatcat aagaatggtg accgaatcta tggctctgctc tacagagact 180
tcaacatgat aaactttatg ctactgttgg a 211

<210> 30781
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G1

<400> 30781

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ggcgacgcac cgacactgcc tccgactact gctcgtggac gccgacctcg ccctcgccgg 120
cgtacctgct cgcgcggcgc tgggctgagg tcgcgggccag ctgctgagcg gataggaccc 180
gatccctgac gtgagcgact c 201

<210> 30782
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E5

<400> 30782

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ttccacttgc actgtatccg atcactaaat tggcatgtaa ccatagagat tattaggtta 120
ctcataccac gctctgatgt ccaaccatta atgtattggt ataatgcgac gcagggtata 180
ccatgctcgt ccattccacg gcgcaacaaa cctcgaagag ttgatctgta ttattcaagc 240

tggtgca

247

<210> 30783

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G10

<400> 30783

cccacgcgtc cgcccacgcg tccgccacgc gtccgattgc cgaggaacta cttgtattta 60

tgctttatag acttccctct gtagcggtga aactttaatt gacacgatcg gattgaagca 120

aacaatgcat gtaacttagt ttaaactctt ggtctgtgta ttgcaacaat ggtgcagttc 180

atattagcat gcacgctcgg caagtttgta gttaggagtc gtgattgaaa tgtttgtctt 240

tccaatcccg gcacagggtt tcttgtaatg ctatgacgac aatctattcg gattccatgg 300

ttttgtggtg t 311

<210> 30784

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G11

<400> 30784

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ggctatgctg acgtggagga gaagctgacg ctctcccatc gctccgatca gaccgaggct 120

tatattacag gccactgcat ggtgatatat aatctatctg ctgccctgct ttggaatggc 180

atcctttagt gctgctaccg agatgttcac gacatgagtt gggctggaga ctgcacggtt 240

cagactatag ggactggtga aatcggtttag atgacgcgac gactgattgc aacgccacgc 300

cgtagccgaa ctgccatatg acggtactgc cgtgctatct gattgatcca ttgttgata 360

cgctcgcatg ggatctgaat tgtcttgat agtgacacgt caatagacta cact 414

<210> 30785

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G12

<400> 30785

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ggctatatgt acttgccctga gaagcttaga aactctaata gctcagatca gaccgaagct 120
gacattacat gtcactgcat ggtaattgat aatctatcta ttgcactgct ttggaattgc 180
atcattgtat gcatcttcca agatgttcac ttcatgactt cggatggaaa cagtacgggt 240
cacactatat ggacaggtga aatcgacttg atgacacgat aactgaatgc aacttcacgg 300
catagcagaa ctgtcatatg atgttactgg agtacgatct aatagatcc 349

<210> 30786

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C7

<400> 30786

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gcacaggcaa ctatgccagt gcactgttcc tcacagcagc taaatctaata gcattggaca 120
aagttgaatc tgagattaaa gctattgtag aggcttccaa gaagagcccg ttgttttctc 180
aattcataaa ggacttgtca gttccaaaag cgaccagggt gaaagctata gcccgaata 240
attgcttccg ctgggggtttt aaaatgtacc aagaaattcc tggcttgtcc tgccggccat 300
tgccagcctg aatttaattgg accccttggc gaaaagattg gtggattgac ctatggacct 360
tagggggaa 369

<210> 30787

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C8

<400> 30787

cggactcggt gggtgatata atccaagtga ctttttgaac tagtttgcgt tctgcacttg 60
attacacttg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt aaaaagaata ctaaacgcaa 180
acatacaa 188

<210> 30788
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C9

<400> 30788

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gctaattgtt ttgctttgaa gcattgcttc ttttcaacta ctgagaagga tgagctttat 120
ctgaacttgg tccttgagta tgtgccggag acagttcatc gagttgtgaa gcatcacaac 180
aagatgaacc aacgcagtc acttatttat gtgaagctgt atatgtacca gatatgtagg 240
gcattggctt acattcatgg cactattggt gtctgccaca gagatattaa gccacaaaac 300
cttctggtga acccacacac ccaccagctt aaactatgtg actttggcag tgcaaaagtt 360
ctggtcaagg gggaacaaaa catatcgtac atctgctccc gatactatag ggctccagag 420
ctcatatt 428

<210> 30789
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D1

<400> 30789

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gtcggggaaa agcgggaagct gaagatccca tcaaagcttg gctatgggcc tcaaggctcg 120
ccacctacta ttgctggtgg agcaaccctc atatttgaca cggagcttgt cgctgtcaat 180
ggagaaccaa ccaaccaatc tgacgagctc tagattcatc atacaaatga atccattcac 240
cttggtactc ggaactcagc agatgtcata ctatgcaaga gatgagcctt cattccctgc 300
cacttgata gtgtcgaaaa agagccagcg ttggaaatca aaaaatccgc tgtgtataaa 360
aaaaaaaaa aaaaaggcaa a 381

<210> 30790
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D10

<400> 30790

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gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120
gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180
aggtcctcga gtccaagatt atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300
agctggacgg ccgcaacatc accgtcaacg aggccattc ccgtgcggc cgtggaggcg 360
gctgcggcgg ctactgtggt ggccgtggag gcggcggcta cggcgg 406

<210> 30791
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D11

<400> 30791

gtcatccaca ctaacgaacg aactcttgct ccgatcacga gctagctgag gtcgacgatg 60
gcggctgtgc tgaacagcag gaagacgccg caggtggtgg ccgtgctggt ggtggtggcg 120
ctgctggctt cgtccgcgtc ggccggcatc acctgcgggc aggtggggtc gtcgctggcg 180
ccgtgcatcc cttacgcgac ggggagggcc agcgcgctcc cctcgtcgtg ctgcagcggc 240
gtcaagagcc tcaacagcgc ggccgggacc agcgcggacc gccaggcggc gtgccgctgc 300
ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcaccgtcgt caccatcccc 360
ggcaagtgcg gcgtctacgt cggattcccc atcagcatgt ccaccgac 408

<210> 30792
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D12

<400> 30792

gctcgtctcta acgccgacgc ctggtgccgt ctgccgagge cttcgtctggt tactagcacg 60
gccccagctc cttctacctt ttccggcgga ggtgaacacc gcctcctcta gcgcgccacg 120
atgaggccga tcttgatgag ggccacgagc gcccgctgac tttcctgcgc tacaaccgcg 180
acggggacct cctgtttctac tgcgccaaag accacacccc cacggtctgg tacgccgaca 240
acggctatcg ccttggcacc tacgctgcc acaacggctc catctgaacc tgcgacgtct 300
gccacgactc ggcgcgctc attaccggat ccgtcgacca gaccgtcaag ctatggg 357

<210> 30793

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D4

<400> 30793

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aggagaaaca taaaaccgaa aagagtgaac catgaactag taacgctggt aggatgacaa 120
cgcgccgttg tgtttcggct ttggggcgaca gagagtttgt agccaatggt gctgatgtgg 180
ttcgtgggct ttgtgtatgt gcacagtttt acgtatatgt tctggtcgtg taatctatat 240
gtgtatataa acctgtatgg gtgttgatga ccatctaaag gtgtcgaaat attcagtagt 300
atatgtagct taaggcttaa acgggtgtgg ttataaaggc atttggcgtg tcgatgggaa 360
gtattatcat gttattttca ggactcaaga gtataaaatg aaataaaatg tgaattcatc 420
tgaaaaaaaa taa 433

<210> 30794

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D5

<400> 30794

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gacgggtgcag cttcaaccca cttcaaccct gtaatcaaac aagaaattag gttcaaccca 120
 tcacttaaac caaacaagga acatgtccga ccagcccac aaaaatgggt tggtttcgac 180
 ccaacccact tcattccgaa accaaacgca ctataagata actgagagga tcacagctac 240
 ttgcacaaat tgtttgcagg agttcagaat gtttacttga tctgcggcta tttctgtaac 300
 ctggtcctga agtctgaatt ttg 323

<210> 30795
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D8

<400> 30795

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 gggctctgtat gagggcctgg actggctgtc cagcaacatt gcgagcaagg cttgaggcct 120
 accttgaata tcaactgcga actgactagg agctccgggt gtatcatgga aactcaggac 180
 agaatcgcag ttgcaacctg ttagatgtct tctaccggca ctatatatgt ttattgcttg 240
 atgtgtactg atgttactgt tcaacgctta ttacctact atactgttgg atgttctttg 300
 gacctgtttc attcgcacaa agaatggact ttcaatgtca tgcttaaaaa aatataatga 360
 tttatcttga aattatcttt tacaaataca gttgattatt a 401

<210> 30796
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D9

<400> 30796

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 cggacgcgtg ggggcccggg cctgggcctg ggcttcctcg cggtcagcgg cgtgggtggcg 120
 tccctcgcac tctcgtgat ctggagcaag gtggttgccg ccgttaccgt ggcctccttc 180
 tcactctacc tggtcgagtc cgtgaggtcg tctcgtctcc ccaggcggcg gccccgggag 240
 gtggtgaccg agaggcggct tccctggac ggccgcgggc gcgtctcgcc gatccgggag 300

gttgacgcgg cgaccgagcc gtcgcggccg agctgctgct cggattccga caggggaagc 360
gacggccgca tgctgctcgt cgaagaaagc agcggcgctc tggacgaatc aagc 414

<210> 30797
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E11

<400> 30797

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tgcgacatgc aaaaggtatt aattatgaac acaacatccc tgattaatac ctcttgcata 120
atttacagct ccaatgctat gcgacatgca aaaatagaga gattaatcag ggatgttgcg 180
ttcataatth tgctaacctg gtttagcagt atgttggtgg aaaaaataa tgaacctggt 240
aaca 245

<210> 30798
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E12

<400> 30798

cccacgcgtc cggccacgcg tccgcccact cgtccgcca cgcgtccgat gataatgagg 60
tgctgagtaa ggcgatagag gttgctgagg ctattgtgag gaacaaccgc aacttagttg 120
tattgtacaa atcgggttata aatgatggat ttaagctgga tttggagcat gctcaagcac 180
ttgagaagga aagaggtcac aactattaca atggaatgac aaaggaacag ttcacggata 240
tgcagaaatt catccagggc cggagttcta agaaaacacc atcaaagctg taggttgctg 300
gtgacattht ctgtgggtccg tgtacgatgt acagctactg aaagcgtgtt cagtagtctg 360
aaaaataaag atgtcgggtg ggcaatatat acagttaccg tcttctcata cttttacgta 420
agtttatatt 430

<210> 30799
<211> 442

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E2

 <400> 30799

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 agatttttga catcatgcaa aacatgcaag aatgtggtca gccccccagt gatcttgtcc 120
 aagatactgt acctgatctg gatctgagca agttgggaca gctgtctcct gagatgcttg 180
 aatcagcacc aaattgttgc gtaatgtgaa gacaaaaaac attccacttg ggattcaatt 240
 ccatgaagtt tcttagcctg tacgaaccgc cttccccctt tctggcttga gtagattcaa 300
 gataatttcc atctggataa tctgtaaagc cttgcaaata tataatgggc tcaatgttct 360
 ttctggttct ttctgttatt tttctgtaac acttccgtcg ttcttatata cataccttac 420
 gtgtcgaaac cccttacggt tt 442

<210> 30800
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-E3

 <400> 30800

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 ttctggttg agcggatcga gatggcggcg tcggatgttg agtaccgctg ctctgtcggc 120
 ggctcgctt gggccacgga cgaccactcc cttcacaacg ctttcagcac ctacggcgag 180
 gtcctcgagt ccaagattat cctcgatcgg gagacgc 217

<210> 30801
 <211> 497
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-046-Q1-K1-E4

 <400> 30801

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ccagtagacc aaagtattat gcgatgtact catgttggtg aattattata ctcagaaggg 120
gtgttnncct tacatattaa cagctcaact ctggctgtan naatggagta gaaatctcga 180
cttcgtcctt actgggttgg ttgggnngtg gtcctggagg gcttacgttt attcagaagg 240
ggcctacctc gtaattcttc tgcgcaaang gagaagttgg actcaactaa ttgagaagat 300
caaagcantt cccttctctc atttacattg ctgtgaacaa ggatggagaa acattctcca 360
atatttcacc gaacgccgtg aatgcttgta cgtgggggtg tttccctggc aaggagatta 420
tccagcctac gggtgtggat catgcaagtt ttatggtttg gaaagacgaa acatttgaaa 480
tctggactcg ggggtggg 497

<210> 30802

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C6

<400> 30802

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ctcctccgcc ggcgccagtc gtcctctctc gccggggccc acccaaccgc cgccgccgac 120
gctctccacc gctcgcgac acgcgctgtt gagatcctcc acggcatggc catccccatt 180
gagctatctg accgggaatc cctcgtgaag tccgcgtcca ctgctctcaa ctctaaggtc 240
gtctcccagt actccacct tctctcgccc ctgcgcgtcg acgccgccct ctccgtgggtg 300
gatcccgtc aattataagc tgctgaaggc cgctgggtctg tttgcgggat ccattctcct 360
gatgcggaac ttcggtgac tgatggccat ttagtaagct taccagcgtt gtttacttgg 420
atcctatgga atgtgtttg 439

<210> 30803

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A5

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acctcgagct tgccaccatg gctagaggat tgaagaagca tttgaagagg ctcaatgcgc 120
ccaagcattg gatgctggac aagcttggcg gagcttttgc tccaagcca tcttctggac 180
ctcacaagtc tatggagtgc ctgccactga tctcatcat caggaacagg ctcaagtatg 240
ctcttacata ccgcgaggtc atttccatcc tgatgcaacg ccatgtactt gttgatggca 300
aggtcaggac agacaagact taccctgctg gcgttatgga tggcattttc atccccaaga 360
ccaatgagaa ctacaggctg ctgtacgata ccaagggccg cttacggctt tacccaatca 420
gg 422

<210> 30804
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A6

<400> 30804

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gctttcgctt catggtactg agtactgacg ctgtgaagtg gaacaagtac tctctccccc 120
aaaaaggccg gtagacccaa acatcttttc ttgcgggctg gtaaagccaa aaatttttaa 180
atgtactcga acg 193

<210> 30805
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A8

<400> 30805

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ggttttggat ctttgggttt gatgacatca gtgttggtgt gccctgatgg aaaaaccatc 120
gaagctgaag ctgcccattg caggttacc cgtcatttcc gtgtccacca gaaaggaggc 180
gaaaccagca cgaacagcat tgcttcgac tttgcatgga caagaggact tgcccacagg 240
gcaaagctcg acgacaacgc tagactactc gacttcgctc tcaaactcga ggctgcttgc 300
gttgagaccg tggagtccgg gaagatgact aaagatctgg cgattcttgt ccatggatct 360

tccagcgtca cgagaagcca ttacctgaac accgaggagt tcatcgaccc attcgttact 420
gagctccgat c 431

<210> 30806
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B1

<400> 30806

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ttaagtgtca ttgtacatat tgaagatcgt gtcctattga atacaatatt gttctacgga 120
aaacaaaaat gcactactac ccaaatacaa caacgtcagg gccttcacgg acatcgtcgt 180
caagactgcg cagaagatca aagctaataa atagacggca actaggccca atatgcctaa 240
tgtcgagaac gaaccactct tcacggtgga gaagcccaac ctgaacacga aggaccaggg 300
cgacacgact gttagagaca tggtt 324

<210> 30807
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B10

<400> 30807

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ggttggaagc ttgttcagct gcatcataag aatccctttt taaaaaataa aaaaaataca 120
aaaaagaaaa aacataaaac caaatatgaa aataataata caatatataa cgcactacat 180
aacacaaaaa cacactacta actaactaca acagatatag gatgacaaaag caatgggcag 240
gacgatatgc tctaccaag tatccaacca attatttcta tctctaaaca cctctatatc 300
tgaacccaaa tcctcaatga caagataact tattcaaaac gtactcgtct aaaaacctat 360
attttacaca 370

<210> 30808
<211> 182
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B12

<400> 30808

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaataa aaaatagaaa aagatgagaa tgaacatcac caccaataat ctaattataa 180

tt 182

<210> 30809

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B2

<400> 30809

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ccggcgggcg agcggagatg gcggagaaga agcggaggcg cggcaactcg aaggatgagg 120

tggtgacacg cgagtacact atcaacctcc acaaacgcct tcacggatgc acctttaaga 180

agaaggcacc aaatgccatc aaggagatca ggaagttcgc tcagaaagcc atgggtacta 240

ctgatgtccg gattgacgtg aagctcaaca tgcacatctg gagcatgggt atccgcagtg 300

tgcccaagcg tgttcctggt aaaaatggcc ggaacccgga ccaataagga ggacccaag 360

gaggaccttt acttt 375

<210> 30810

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B3

<400> 30810

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tggaacagcaa aggagaaaga atatgtagaa gctaatacata gattgaacat ctgccttgat 120

gagaaccgca aactttcaga agatttgatg aaggatgatgc aagagctagg gtgttgtaga 180

gaacagtgca aaacaatgga ggataaactg gtgctttcca tgaagagtga catgaatgag 240
aaagtaatgg aatgcagcga ggcttgtaaa gcatccaacc aaattgtgga gaaaggagga 300
accattcctg gtgctgtgcg tgaaaatgag ctcgacaaac aactatcggt gattactgaa 360
gagcgcaatt gtttactctt tgagacacaa cagatgagat ccatgggc 408

<210> 30811

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B4

<400> 30811

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ctttcttcgcc ttccgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180
cggcggtggc ggtggcggtg gaggatctgg tgggtggtgt ggtggaagcg ggtgggggtg 240
ggagtggagg ggtgggatcg ggtggtggga gtggagggcg gggatctggt ggaggcggaa 300
gcagc 305

<210> 30812

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B6

<400> 30812

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aaggaaaaga ccaaataaaa acaataaaaa aaaattaaca aactatataa ctatatctta 120
attatat 127

<210> 30813

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B7

<400> 30813

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ctatgtttgc tgttttgtaa ggtgaatacc gatgctgttc cattactagg atctatactt 180

ggccaaaaca aatgtcta atctgaggtttc gtaaaaaaaaa aaaataatag aatat 235

<210> 30814

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B8

<400> 30814

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tgattttgct gatactttta tctatgcttg catccaatgt gttgataaga ttattgattt 120

ggcgactctg accgtcgctt gcgttgcttc actctggcct agcatttccg gtattttcac 180

gccgagcgac tatcttgcca atgaggttgc cgctgcttcc gaggtatccg gctagaagtt 240

ctggagactg ccgctggatg atagctactg gtagtctatg aagtctggca tgtctgatat 300

gttcaacact gccgtcaggc ttttatgttc tatttacctc cgtctgttcc tgaacctttt 360

cttctacta 369

<210> 30815

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B9

<400> 30815

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gggaagaagg tcctactgtg gtggcttcgt gttgaagcac gggctgatag caagtttctt 120

gaaggggtgg taattgagcc acctttggaa gtcgtcgtcc ctgcaaagcg cactccatgg 180

cctgaaacaa ccaccgagct gccagccgag ttattggatg acaagcaaga gcaggaggat 240

aggcgcttgt caagagccaa caaatcatct cggccccgag gcaccacgaa gcggaagggc 300

gaccctcaag gacaagataa ctgatgcaga acgtactggc cttgtgatgt atatcttaca 360
ccctgcaaaa acacagtagc aagcatatcc tgtaaatctg gcggtgtctg ttttaattttt 420
cttttcttt 429

<210> 30816

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C11

<400> 30816

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ccaagcgaag tagccttgca catttgatcc caagtctatt gattccttaa gagtagcgat 120
gtggcgctgg atgtaatcta gccttttgta gtcatttaag gcaccccca tgggtagagg 180
tgtctccttg gtatcaacat ccccgattcc gttctccgtg atgtagatag gtgggtttcc 240
gtatttggtc ttcgatgatca taaggagatc cttcaagccc tcaggggtaca tgtagatcca 300
tggatttccc ataggaggac caatgggctt cccgtcaggc ccgttaactt cttgactggc 360
gtaggcgtcg tcagtgttga gcacaggtga gtagtttggg gagatatcga tgtttttgga 420
gaaccgtgag gtgta 435

<210> 30817

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C12

<400> 30817

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ttaccagtgt tctataaaaa aggataacag tgctggcaag tttgcagggc ccggagcctc 120
atctggtgct atttgcagca gttcctggct ggctggccgg actttgtaaa gaaccgctg 180
agaactatgg cggccagttc cctgcacagt tgccatgcat tcttctcact catgctttct 240
gcgtgcttca aattagggtc acgcactcac ggacctgcgg cggccactcc ttttcatccc 300
cttcttccca tggatgggtg gttgggttca gtgcgtggct acctgcgact tgccaacaat 360

gaagagaaag tcagaagact tcacacacaa gagtctctcc gggaaagaga gaaagggatg 420
gcgtttg 427

<210> 30818
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C2

<400> 30818

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gtatggctac ctttataacc taaagcaata tatatatata tacactacct atcaagtact 120
accctaaatt ctactgcgtc atccacaccc acaaggaaag ctacctgcac tatggctatg 180
cctattcaat taggcgagcg accaaaaatg ctctagagcg gtgtcacttc tatcaaagct 240
acatctgtgc tccctacctc catgcgctaa actgtctctc atcaa 285

<210> 30819
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C3

<400> 30819

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atgcagggca tcaccaagcc ggcgatccgg aggttggcta ggagggggcg cgtcaagcgc 120
atcttcgggc tcatctacga ggagaccgc ggtgtgtctca agatctttct ggagaacgct 180
attcgtgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac cgccatggat 240
gtcgtctacg cgctcaaacy acagggccgc accctctacg gcttcggcgg ctaggtcgct 300
tactcatctg gtggcgaact gcatgtgttg tcgccggtgg ttgtgttggtg tgccctaatta 360

<210> 30820
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A4

<400> 30820

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ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120

ggcatggcta tggaagatct ggaagtccaa atcattagct gaatatttag atagttttat 180

tcacagttgg gactcatgag ctctgttggg accctacagt cttgcttttt acatgagaaa 240

aaaaaaattc tcagttaaac tcgtaaggcc ggtactgaac ttaatgtatg gataataatg 300

ttaccagatt accagtctat agcaggaaaa ccttgacctt caaggtttgg ggtacacaat 360

ttttttaatt gccttgagaa cctttgttaa aaacttaatt ctggtctttg gcctaaaatt 420

ttttcaattc ttaaggcaag tattttttt 449

<210> 30821

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H11

<400> 30821

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cttgtcacca tattctcggc cccaattat tgtggtgaat ttgataatgc tggtgcaatg 120

atgagtgtcg atgaaacttt gatgtgctca ttccaaattc tgaaacctgc tgagagaaaa 180

aacaaattta tgggggtccaa caaaatgtga tagtgaaagc cattttgctt ccagcagctc 240

tagcctctta aggttctcct gtggatgcat cgagacaaca gcatgctggc gccaaagttg 300

agggcagcat tgggtacta tcagagaaac caaataatcc catacctaac tgttcatctg 360

gaagttactc atcatgacaa gtgcctgaaa ttttctctt ttctgttac cttgtgtcag 420

aacattatgt agctgtagat atat 444

<210> 30822

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H12

<400> 30822

gaaaatttgc gggcttcact cattaatatg ggcgttggtg ggcattgcatt ggaagagata 60
 atagataaaag tgaagaacag gcattaccag ctagcttgca cattaacatt tgagaccaca 120
 cacgggtgtct cctgtgattc tggaatcaac catccaaacc tatatttcag tgaaagccag 180
 aaagttctgc gggccaaaaa ccagaaaatg gagagccaat cagcaacctt aattgtattg 240
 cagctggaga aactatgcat cttcaaaaat cttaccagca ggtaagcact gaagcaatat 300
 tcatecttga agccaattat gttatcatta ctgattgttg accattggcg totacctgga 360
 atattgttgc ttctgtctgt taccaaattc cagctgctgg c 401

<210> 30823
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-H2

<400> 30823
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 aacttatcag gatatctagg aaatttactg caatttatgt attttggtat caattatcaa 120
 tctgccaatc aatcattttc ttttgctttc ttcaataaac atttattggc aagacagatt 180
 agcatgaatg ttttgttaca ctttttttta ctgcttgacg tattttctac cttttgaaat 240
 tatgctntat agttataaac taaacatgta tttatgtaac aatttagttt tccagaaaca 300
 gttttccaat ctatttcaga acatgatctt gtaccttgtg aagttttttg ttgttgcttg 360
 tgcagactct gatg 374

<210> 30824
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-H3

<400> 30824
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 aaggcatatg aagctacaga agatggattc ttctccattg ttaccaaaca atggcctgta 120
 aagcctcaga tagcagctgt cggctcatgc tgcttggtcg gtgtaatttg tgggtggcatg 180

ctttatgttg ccaatgttgg ggattccccgt gtcgttttag gaaaacatgt taaggccact 240
ggagaagttt tggtgtcca actgtcagca gaacataatg ttagtattgc gtccgtgaga 300
aaagaactgc agtcaatgca cccagaagat aggcacattg ttgttctcaa gcacaatgtt 360
tggcgtgtta aaggactaat tcaggtttgt agatcaattg gtgatgcata tctcaaaaag 420
caagagttca acaaggaacc cc 442

<210> 30825

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-H4

<400> 30825

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tcttgcccg ctggttggtg ggatccggcg gacagcgtcg ccaggctgtg tccccccac 120
cctccagcca gcctgactcg gggctctcggg caggttccgc cgcactgtgt cgtttcttcc 180
ctttcccggt tccccggttc agttcagctt cggttggctc gccgtactcg ggtttgttcc 240
tcgcctcgtc tcgcttnctt cctccgcagt cctcgtctcg aatcgctcg cgggtgggaga 300
aatcgngcg cgaggatgac cgtgatcgac atnctnaccg ggggtggacgc gatctgccag 360
aagtacgaca gg 372

<210> 30826

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H5

<400> 30826

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cactaccacc ccgtgtccgc ggacacttac caagacctcg aggttggtt ctccggccac 120
tcctcctccc ctctgaagcc cgcggcctcg ccgaggcggc ccggccgcat gttctgcgac 180
ccctgcgacg acggcgacga gctccacggc cgccaccact acctcgacat ctgcttccgg 240

tgccgtaaac tcctgtccgg caacagagac atcttcatgt acagaggtga cctgccgttc 300
 tgcagcgagg agtgccggca ggagcagatc gagatcgacg aggcgagggga gcagcggctg 360
 aagcagacgg ggcgggccga gcagcagcgg cagcggcagc agaagcagag cccccagagg 420
 atccccatct gggcgtggta ggatgag 447

<210> 30827

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-H6

<400> 30827

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 cccaccgcct gcgcccgcga caacagcgta gtgtagtgta gttccggaga gggttgggga 120
 gagtagtagt gatccgcaat gtcgacggag gaggtctgtg tggctgacgt cccggtgacc 180
 gaggtgccag cggaggtccc ggcgggccag gtggccgagg cgccaaggc gaagaaggcg 240
 cccaaggaga agaaggcgcc taaggagaag aagccgtccg cggcgaagaa gccggcgggcg 300
 caccctccct acgctgagat gattgtagag gcgatcgctg ccctcaagga gaggaaggng 360
 tcgagctcgg tggccatcag caagtacgtc gaggggaagc acg 403

<210> 30828

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H8

<400> 30828

cccacgcgta cgaaggacca gatacggctt catctttgcg ttggagctcc gccacgtgat 60
 gaccaacctc ggcgagaagc tgaccgacga ggaggtcgat gagatgatcc gcgaggccga 120
 cgtccatggc gatggccata tcaactacga ggagttcgtc aaggtcatga tggccaagtg 180
 agtaaagcct gcggtaacgg tatagtaccc ctcgggaatc gaaggaggaa accaaaccgt 240
 gcatcgcata ttagaaaggc aatgcaggtc ttgtttcctt cgttttcccc atgaagaaac 300
 cgtactagct gtagctgctg aacgtttgag tccccctgct gccaccctta tctccatttg 360

tgtcatcgaa actccgtgct tcccctgctg tgtgaatctg tacggctttg cgtgttctgg 420
acactga 427

<210> 30829
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-045-Q1-K1-H9

<400> 30829

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ctctccttct gagagtgggg caaatattga cttggacgac gttttatctg ctgcgagac 120
agctgctgaa tcagctgagc gagctgcac agcagcccgt gctgctgcaa accttgacac 180
actgcgcatc tcagacctga agaagaattc caaggtttat agcaattacg gtgatagcgt 240
ccaaaaggaa agccatcatc agactgaggg gacacagaaa ccggtatttg atcaccagga 300
ctccttcacc aatgatacac atgactatgt gtcacccat gtgccgcaga ggctcgcatc 360
tttgaggagc gatccatatt tctcgtatcc caacttggtc tcagcgccaa agccctgata 420
gcgggaacta gtgggctgca ag 442

<210> 30830
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A1

<400> 30830

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accggcgacc cgtacccctt agcccgagga gcgagagcga cggagctgac cgaggcgag 120
ctgagcacgt actactgcag ctacccgtcc aagcgcatt acgtatccgc tcggggcagg 180
tgctactaca tcagctccgg ccgcagctac tacggacgag gcagcgccca catcgtcttc 240
acaggccgct gagccaagca cgccactcgg aacatgtcca atgacgaggc ccacgtctac 300
cgga 305

<210> 30831
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A10

 <400> 30831

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 cgccggggga gaggagagga ggggagggga tcggctccaa gggaacaggt gagatggcaa 120
 tcctgtacgc gctggtggcg cgccggcacgg tgggtgctggc ggagcacagc gcggcagcca 180
 ccaacgcggg cgctatcgcg cgccatgtcc tcgagcgcct tcccgcacggc ggcgccgaca 240
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 cggggctctg catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg 360
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<210> 30832
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A11

 <400> 30832

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 cccgcagctg acgcctttct actacatcgc agtcggggcc actgatgcct ctgctctgca 180
 accccttcac gcctgatctg agagaccgca tctgcatcag aggagagggt accttggaca 240
 acgcatccca ggtgtggaag aagtacgagt gccagagcac cagcgtctca ggaggagccg 300
 agatctgctc gactgtgggg cgcgtcacc ccagcatcta ctggcagatg accgcggctc 360
 tgacggtgag ccaggggctg taccagtacg ggcctttcct catccagctg catgactgca 420
 cct 423

<210> 30833
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A12

<400> 30833

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aaaaaaaaaa aggagtcaat cgccggcgac gggtaggggt gtacgcttga ggcgatcggc 120

agagaagacc gagaccgacg gctccagtgc cgctgtcact gccagtctgc cacagctagc 180

cgcctagctt gatccgcctt ttgtgctgtg cggatatgag ggccgcgcag gtcgatccgt 240

tccccgcggc gccgcccaag tcgcggtga agcgctctt cgagcgccag ctgctgcggg 300

tctcgccggc cgagcgctc ccgtcggcgc ctcccggtgg cggggagaag gatgagctgc 360

cggagcctag ctgctgtgc ctggacggca tggtagcgag ctctctggag gacggcggcg 420

gcggcggag 429

<210> 30834

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A2

<400> 30834

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<210> 30835

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A3

<400> 30835

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<210> 30836

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H1

<400> 30836

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaatcaat tttaaaggat 180

caaaaaatta aaaaaacaat aaaaagaagg taaaaaaaaa taaatcgggt aaaacaaatt 240

aaataacctg gccagtgtta aaaaaacttc atgactggaa aa 282

<210> 30837

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F4

<400> 30837

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gcggaaccggg tatggatgca cgaagggatt tacgaagcgt tcgtacaagc agtcatgagt 120

gctgaggaca gttacaatgt agaagacagt acatatgaga gtacatcgat tgacgcagcg 180

actgacgaaa ctgctgagca gaacgtggat gacgcaattt ctgacgcagc 230

<210> 30838

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F5

<400> 30838

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ttacgcgggt ttcggcccca gaaacaacta gaaggtccat cgcaaatcca acctgcaaag 120

gctgaagacg aatacgattt cttgcacgac ggcagaaggc aggccgaagc caggctacag 180

agagcacttg cccgggtgca ctctatgtca cagtaccag aagcgagaga gcagtaccac 240

aggcttacia cctgcgttgc tgaaatgaaa cagtccagga tgatgcagga tgagatgcta 300

agccaggcgg ctggtggtgc ggacgatttc atggctggac tggaggactt gatctgcata 360

gatgatgcc cgccccgatg tctgccattc ggtgaagctg agccttttta catcagatag 420

gcagggga

427

<210> 30839

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F6

<400> 30839

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ccgtgtctgc gccggtgtct gctcggctct tctccgcgga tgcattccgt gaagccgccg 240

ccacggccgc agagtcgcag gatgactctt tcttcaaggc atcccgcgaa ggattagcct 300

atggaaggtt ttacagtgtc attggtggaa gcagtcgtct tgagaagaac atattgaaaa 360

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<210> 30840

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F9

<400> 30840

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ttgtggcatc gtcttgtaac aaactgcagg agttgcgggt tttcccttct gctcctttcg 180

aagcagctga gcaggtctct ttgactgaaa gaggtcttgt tgatgtatct gccagttgcc 240

caatgctgga gtcagtctc tacttttgca gacggatgac caacgaggcc cttattacca 300

tcgcgaagaa ccggcccaac ttcacttgct tccgcctatg catcattgag cctcgcacac 360

cagattacat tacacaccag cctcttgatg cangttttag tgccattgtg gaatcatgc 419

<210> 30841

<211> 423

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-G1

 <400> 30841

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 gatgatggtt caggaagtgg aaaggagtgc aagtaccttg gcaacatttg atgaatcaac 180
 aagtgttctc cggaaggctg aagggtgaata tcaaggacac cgctctttgc taatgcgtac 240
 ccgtggtttg ctctccacga tgcaacagca agatgttctt gataggatca tcttgacctat 300
 cggctttatc attttctcct tggcggttct ttatgttgtc tcaagacgta ttgggtctatt 360
 gacgctgcaa aagaaactgg ccgatgccat cagatccggt tcattatcag ccgatgacat 420
 cgt 423

<210> 30842
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-G10

 <400> 30842

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 gctttcataa agaagtccaa aagtgcttga gaaacgcaca ctacctaaaa gatcgctca 120
 cggaagcagg aatcggagcg atgcttaacg agctcagtag cacagtcgtg tttgaaaggc 180
 caaaggatga agaatttgtc cgaagggtggc agctggcttg tgaagggaat atagctcacg 240
 ttgtggcgat gccagtgtc aacattgaca agctagacta tttcctgaat gagttagtgg 300
 acaaacgggc gacttggcac caggacggga taagccagcc accctgcatt gccagagacg 360
 taggtgttga gaactgtctc tgtggccttc acaagtagcg agccttttgc tttgcaagtg 420
 ggttcactct tgagtcgagt t 441

<210> 30843
 <211> 267
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G11

<400> 30843

ggcccgaccc actcgtccgc ctacgcgtcc tcgctcgcgc gcttcatttc caaccctacc 60

acgcgcgcct cgagggggcgc gccttacgac actacgcggg cgccccaaac gcccgcgtag 120

ccgacctccg ggccgacagc atccgcacgc agacggccgc cctaggacta caccacccgc 180

tgcggctacg aaacagcaac cgaggcttag ttctcccgat cgcgtaccgc gcggtctaca 240

gcgacgacag ctaccgtgga caccagc 267

<210> 30844

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G12

<400> 30844

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tggaacatca tctaccctgt ctacctcaac tccaagaaga cggtcgccga gggccgcccgc 180

atcgccgctg ccaaggcctg cccggacccc acctgcatcg agatcgccga ctgctgttcg 240

cacctcaaga tccccacgc catcgagttg gataaggcgt accctcgga tttcttccag 300

gtggggaggg tcaggggtgca gcttaagaaa gatgacggct ccccggtcaa tctgcgatt 360

aaaacgaaga agcagctgat gatccaagta gcagagctag ttccaagca tcacggaagg 420

ac 422

<210> 30845

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G2

<400> 30845

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tggagatgat ggatatacag gacgctgtca atgatcccag tgatgctcaa accctggaga 120
ccatccaatc tcagggttaac gcaaagctct gaaacatgat gccgattcct tccaggaggc 180
atactacaag aaggatcttg accgcgcata agaaaccaca caaagaatga cgtactatga 240
acgagcacta gaagaaacag tctagaagct ctgagcctgt catctactgt tacacctgcc 300
ataagtggta aggcattgtat cttttcctac gttcctagta catcctgctg tagctgacgc 360
a 361

<210> 30846
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G3

<400> 30846
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ttgatcagt atcactctcg ctgggtctca cccctcccg cagacggcca aacagaacct 120
acgcgtgctc gcgcgccac gagcgagcga tgctccct cgcgcgcgc cgtccatcc 180
tgctctctc cactacgtg gccgctccc acctctgct gcgcgccgc gcggccacat 240
tgccggacc cgcgccgctc gaccggcac tggctcgcac cccggtgcag cccgccgccg 300
cgttccggg gggcacgatc ccggcgttcc ccgcgcagtc ggactcgtg gcgggttctc 360
cgtccacgtg cccgcttcgc cttccccg 389

<210> 30847
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G4

<400> 30847
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atttctccga agaagccgac ttcgatagca gaggtggcga agcagcgcga gctgagcggc 120
acacttctga gcgaggacga cagcaagatg aagaagcaga tatcggacct gaaatccaag 180
gagctgagcg gccacgacat ctttgctcct ccggaagacc caccggccacg caactcagag 240

aacggctcga cctcgagac cccgggcaaa aatgcacacg taagcaactt caagttcggc 300
 gagggccgacg aggacggcat ggtgaagacc gcgaagaaga tccccacaaa gaaaatcacc 360
 gacctcgcgg gcaatatctt caaaggcgac gagaccccc c 401

<210> 30848
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G5

<400> 30848

gtggatgcgg tttattcaaa aattttaaat ataaaaacaa aaaaaaaaaa aaaaaaaaaa 60
 ggaaaaataa aaaaaagggc ggtcgatata aaaagaatgg ggggtcct 108

<210> 30849
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G6

<400> 30849

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 cgccggctcg acgcaggagg aggaaggcca cgcgccacgg cacaggccgg cagggcaggg 120
 cagagagccc atccaaccgg ctgctgcgctc tttttacctt cgtttggtga cgaaaccgaa 180
 tggcctccct cctcctgac tccgaaagat ggagacggag ggtttggttt gtgcgtgagt 240
 ttttgcacgg ttgcacgagt gaaatgggtg gcgtgctgat cgccgtgtaa accctgtcga 300
 tacggtatga aacaagcgag aggcctaaac aagtcctctc cgaatttctc gtc 353

<210> 30850
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G7

<400> 30850

cctacgcgctc ctcggtcgcg tgttctctat actgcacaag gcatgtacta caggagggat 60

aacaggggtcc cttcttattc agaccaaacg tcggaagaaa tcatgaagat agttcaagat 120
 gcaaggacca tgccgaaatc atccagatca ggctatgggt ggagcagtga gtattcggat 180
 gaagaagaag agaaggaaga ggaacacaga ccagaggagc atgaggaaga ggaagatgaa 240
 tacgatagga ggggtgaagga ggtccatgca agcggagAAC tccgtatgga cgctcttcac 300
 atatgaaagc tagtggaaga gaaagttgca tgtagataac tgggttggtg cggatctgaa 360
 ggatccagtg ggatgtatgc agttttggct tgagaacatg gtagtctggt gtctcgggtg 420
 attaaattat gttacatgaa aatt 444

<210> 30851

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G8

<400> 30851

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 gggcggacgc gtgcacgacg ctgacgacct gcgcgcgacc gaacgaccct ccgtcgccac 120
 catgacgctg atcgacgggg aggacttcca gcatatcctg cgtaagctga acaccaacgt 180
 acgataggaa gcagaagatc atgttcgaca tgacctcaat gaaggggtgc gggcgccgct 240
 tctgcaacat cgctgcaag aaggccgaca tcgacatgaa caagagggcc ggcgagctga 300
 cacctgatga gctggagcgc ctgatgacag acgaggccaa ccctaggcag atcaaggtgc 360
 cggactggtt cctcaacatg aagaaagcat acaag 395

<210> 30852

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G9

<400> 30852

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 cgccttcttc ctctaccgt ccgccccggc cgcgcgcgtc gccgacctcc gtgtcgacag 120
 cttccgcgcg cagccgcccg tcctcggcct cggcctcgcg ctgcgctcc gcgtcagcaa 180

ccccggcttc gtctctccgc tccgctaccg cgcggtctcc gccgccgtct cctaccgcgg 240
acacctgctc ggggccgcca aagcgtggcc cgggtccggc gagcttgccg ccagggatga 300
ggtctatgcg gatgctgatg tgtgggtgga cgccgggaag gtgctggatg acgtgatcga 360
gctcatcggg gacgtggccg cgggtgtcagt gccgc 395

<210> 30853

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F3

<400> 30853

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gatcagttat tcacgtacac agcaggtaca taatatggac atcatcacac agtgc tcaaa 120
atagtataaa aggggaataa tggttgatta catcatacgt ctgagacgtc catatagttc 180
ttacaataaa tcaaagtgcg gaaaagaaac gtagataatc gcggncttca caggcagccg 240
actggggggtt gccgctaacc cacacctaga actcgtcgtg gtcttggaac tcttggaagt 300
ctctccaca gttcatctt cgcctgagca gtggttgcaa tgctgacaac ctggggggggg 360
ggggtttggt gt 372

<210> 30854

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D9

<400> 30854

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acaatttcag gaaatccctc tggatctgaa gatgattgag gcggaaaagg ctggatttga 120
gatcctgaaa tctactatgg tagagaagct cccaatgat ctggaaggaa tggagtcac 180
gatggggaag ctttacattc ttatcgatga gatctacaaa tacgtcgatg atgttggtgga 240
aggacgcgtg gcacccgaca acagaattgg aaggttcatc tctgattctt ttgcttcggg 300
gccgaaattg tccccggctg ctttcgataa gcttttcaat gacaagattc aggataacct 360

tgcgctggta tacctgtcaa gcatacacaag gacacaaatc agcatcgccg agaagttgaa 420
 cactgctgct caagtg 436

<210> 30855
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-E1
 <400> 30855

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 ccgaaacccc aacctggagt ttttttcttc tatgatttct cacctataaa ggtgatattc 180
 acagaagaaa atagatctct actccactac ctgacaaacc tttgtgctat agtgggaggt 240
 gtgttcactg tctcgggtat cgttgactcg gttatatacc acggacagaa ggcactcaag 300
 aagaaaatgg agctaggtaa atacagatga tcaacatcga ccttgtactg gccccatcgt 360
 ttccaagttt tgtggcatgt aaggagggga tatgcctgct aaatacgaca agatgccact 420
 tac 423

<210> 30856
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-E10
 <400> 30856

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 caaagtcttc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240
 gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300
 ggcaacttcc ttacggaccg tccctcaacc aaggccacg ctgctcctgg cgggtggctct 360
 tccctgggct acctgttcgg tggcaactga tgcccgtgct ggtgcgctca ccaaagttat 420

ccctccctgc ctgctgcgtg ctatgt

446

<210> 30857

<211> 435

<212> DNA

<213> Zea mays

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<400> 30857

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ttcttgcatt gatggcgacc gaggtggctg agactcccg cccgttggcg gagggggtcc 120
ccgagacccc cgcggaggca cgggaggcgc ccgcccga ggcaagcct accaaggcca 180
agaaggcctc tgcgccaag aagcgtgcc acccgacca cccgccgtac gccgagatga 240
tctcggaggc tgtcacgtc ctcaaggagc ggacggggtc cagccagtac gcgatcgcca 300
agtctgtcga ggacaagcac aaggacaagc tcccgccaa ctccgcaag ctctgctcg 360
gccagctcaa gaagctcgtc gccggcggca agctcaccaa ggtgaagaac tctacaagc 420
tgcccgcacg cgccc 435

<210> 30858

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E12

<400> 30858

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gttctgtcgg tcgttctgcc agccgccagg tcttctcgtc cccatcccc ggtcttctc 120
cttcaatcct ccggcgacga gcaccacca gaggtggga actccaaaga ggaacagggt 180
ccatggctgg aggcgcagga aatggttcga acgaggcgt gcaggcaaag gggagtgggg 240
gtgatagctc cgccgccaag ccgtgcccc cttgctcgt caaggcgaga gcggcggcgc 300
ccgagtctga ggccaagtgc catgccaccg tggtttcggg atggttcacc gagccacgat 360
cacactgcgg taaagccagc aaggttcagt attacataa cccaatgtgg ccaggagagg 420
ccatttcctt gaaagtggag aa 442

<210> 30859
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-E2

 <400> 30859

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 tgtggctttc tttttcatgt atctcaccaa atcgttattg ttgtgagagc tatactacac 180
 ggtggtatca agagtatcac aatgcccaac aggcgatgga ttgagctttc ctaatttttt 240
 catgataaat taagttctat tccctccgtc c 271

<210> 30860
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-E3

 <400> 30860

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 gtcgaccctt gcagtttgcg tagaggagaa gctgaaggag ctgcaaaaca aactggacgc 120
 catgtctttg aagcagcccg ggcattgacga actttaaaaa ctttagaata ttccagcgtg 180
 aacataaaga agatgtcacc aggaggcata gctctgacag ttacatccat aacatgatag 240
 gcatggaagt caatgaggta tatggacaga aacgggccaa gcgcgagaaa tgagaatgta 300
 gagtttaggt cgcctaccag gctatattag ctgcgataga acattttttt tagctgaaat 360
 ttgatgttgc aattttccag actcatctga tggaatatat agtaagaaac agt 413

<210> 30861
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-E4

<400> 30861

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cagcagcaag tcgtcgtcgt cctcgagctc ggcgcagcgg gcagctgccg cactgctcgt 120

ggcgcgtcgtc gtggcgggtgt ccgtcctggt ggtgggcgcg gcggcgggtgt gcgacatgag 180

caacgagcag ttcatgtcgt gccagcccg cgcggccaag acgacggacc cgtcggccgc 240

gccgtcgcag gcgtgctgcg acgcgctggc ggtggcggac ctcaagtgcc tgtgaggcta 300

caagaactcg ccgtggatgg gcgtctacaa catcgacccc aagcgcgcca tggagctttc 360

ggccaagtgc ggccttgcca cgcgggccga c 391

<210> 30862

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E6

<400> 30862

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tcggcatgat tttgtacttt caaagaaaga gtttgttgat tcttattggg aaactactaga 180

gtgttggttat ttaacagctg gtttggctga cccgttaagt gccttccctg gcagttctgt 240

cccggagggtt tgtctcatct gctgtacatc attgatgcat aggattatcg catacgttga 300

ataaatgtac ttagcgcctg tttggttgct ccccaactta cataaggtag cttctgggca 360

tgggcagtac ggtgagaaac a 381

<210> 30863

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E7

<400> 30863

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agccaactga tgaggaacca tttgctccaa ataatccaaa aggttttgtg gggaaagctc 180
 ttggacagcc gtgcctgaaa aggtctgtac gggttgggga gacaggcttc atagaggttg 240
 ctgcttacct actcgactat ggtcactttg caaatgttcc taccaccatg ctgggtccaga 300
 tatcacacac aatcttcaat gtgaactac 329

<210> 30864

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E8

<400> 30864

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 ttctaaagaa aatcaagatg cagtttccaa aatgattgat cagaatcaac attcaaaaga 120
 agaccagctt aaaaccttgg aaaagatctc cggcgctgat gcagtgggga ttgccaagga 180
 cagagataat ttgaaatctg tttttatcac tgagactgag caccaagatc agaagccaaa 240
 tgctagagga cgaaaaggat ggtacaaagg tcaaggtcag atgcagcaaa atgcaaacia 300
 acaaggcagt tgtggttccg agtcattaaa caagcctatt cctggaccga gaatgccaga 360
 tggaacaagg ggcttcacat tggga 385

<210> 30865

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F1

<400> 30865

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 ttccatttga tgttttgtcc agaatccttt ctgcacacc taagctagag gatttaggca 120
 caggatcctt tttacaaggc aatgaccctg ctgcatatgc cagtttatgt agagctcttg 180
 agaactgcac ttactgaag agtatatctg gtttttggga tgctccaggc ttttatgttc 240
 aaggaatttt gtcaaattgc aagatcagaa atcttacatg cttgaatctc agctatgcta 300
 cattgattca gagtaccag cttatcggtg ttattcggtc ttgtaagaag ctccatgtct 360

tatgggtggtt agatcacatt ggtga

385

<210> 30866

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F10

<400> 30866

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cacacgcata gacttgataa caaactgcta gagtagcggg tgctgcttta tgctgctttc 180

taagcaactg agcagggtgtt tgtgactgaa agagggtctcg ttgatcaatc tgacagctgc 240

ccaatgctgg agtcaagcct ctacttatgc agacggatga ccaacgagcg cccttattac 300

catcacgcag aaccgtacga acttcacttg ctctcgacta tgca 344

<210> 30867

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F11

<400> 30867

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agcacttcga gggcgtgaag cagcactggg cgagcaactt cgccttcctc gactattaca 120

agaaggctcta cggccgcgcc gagccccctcc ccaagtggtc cgacgccgac gtcgacgagt 180

tcacgcctc cgaccgggtc tacggggccc agctcaaggc cctgcgggag tcgaggaagt 240

tcgcgcttgt cggggccttc gccggcgccg cccacctcgg cggcgtcgcg ctcaagtact 300

ccaaggcgcc gcacggcgtc gtgctggcga ccgggttcgg ggcgatcacg ggcgccgtgc 360

tgggggtccga ggtggcgga cactggtacc agctctacaa gatggacaaa gcagggg 417

<210> 30868

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F12

<400> 30868

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actttgttgg gatccacacc ccaaaattga tttctggatc tagcgaaggg ggtgcagctg 180
tattcaagct tctgtacaac ggtcaacctg cttgtttggc acaatcccct cagttgtaca 240
agcaaatggc tatctctggg ggttttgagc gagtatttga ggtcggccct gtgttttagag 300
cagaaaattc aaacacacac aggcatttat gcgagttcgt tggctctgat gctgaaatgg 360
agattaagga gcatcatttt gaggtctgtg acattataga tggcctattc gtatcaatat 420
ttaaacactt gtctgaaaac 440

<210> 30869

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F2

<400> 30869

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gcgagcattg ctagccaagc tgcaggggtc cggagcggag accggatgag ggagacgtcg 120
cttgcgatgt caccggcagc atccgccgcc gaaaccatcg tcgtcgcaat cgcaagcgtc 180
ccgagccagc agcagagcag ccaccgcgcc gcggcgccgt ccgtcccgtc gtccctacgcc 240
gtctgggaga aggagcggta aggcgtctgc agctttacga cgtcgtcgtc gtcgtcgtct 300
gccacctacc tactgtgtgt gctgtgtgaa ggggaaagta aaaggaacgg aaagggggaa 360
ggca 364

<210> 30870

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D8

<400> 30870

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 ggtaaattaa tgacagcgca gtgcgctgaa taaagcaaaa aacatacggg tggcagggct 120
 ggggctttcc tgctcaggta ccggatcttg ctgctattgg agcgagtgct atgctcctcg 180
 attgtattac 190

<210> 30871
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-C2
 <400> 30871

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 ccagggtttac ttatacttac tgctttttga cgggtactgta catacagttc gacaatttat 180
 ttattggcag ttcaattc 198

<210> 30872
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-C3
 <400> 30872

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 ccggccgagg gcggcgcgac cggacaacca gcgtgagcgc gaccggcgac atgactcgcg 180
 gcaaccagcg tgaccgcgac cgtgagcgcg cggcgggcgc gaagcccaac gccagaact 240
 cccaggacgg gctcaccctg gagcagcgcc gcgagaggga caagaaagct ctggaggaga 300
 aggcggccaa gaaggcgag caggcagcgg ccggcggcac cggtacctnc acggacaaca 360
 acaagaacaa ggcattgtggc aagaaatatg aggcagtggc gcgccggcac ctctgtacga 420
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<210> 30873
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 <212> DNA
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<223> Clone ID: LIB3067-045-Q1-K1-C4

<400> 30873

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caagcccaag cgccctccct ccgcttactt cgtctacatg tctgaattca ggcaggagta 180
ccaggcgcag caccctagca acaagagcgt tgcggccgtg agcaaggcag cacgggaaaa 240
gtggcgctct atgtcagagc aagagaagca accctatgtg gaccaagctg ggcagaagag 300
gcaggacctt caaaggtggtg tgccaccaga gcgagaactg catcacctgc tgcaagagcg 360
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<210> 30874
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C5

<400> 30874

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gaacggaaca acgactacta aacgcgcccg atcacgccgc ccgagaacga agcaggaagt 180
gactatgcgc ccaaagaagc gcaagcgtct agcattgaac acattgcggg catgagcaga 240
aacagccgat caaacaggtc atccagagac gccgatacaa accgatataa tacgttggca 300
ttaaaaacac gatagggctc agcatgtaat agaactgaag gaaggatgtt gtgagacttg 360
tatgacatgc ttaaatctct ggataaaatc tagcatataa taagtctatt acatgcttaa 420
atctctagag 430
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<210> 30875
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C6

<400> 30875

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cagtgccgct gccagcaciaa gccgctcgaa cacatcgagt cgggccatac ggcgcagctc 180

gcgggcgagc ccgatgcggc ggtgttcccg gacatcgccg agcgccctgag cattccgcag 240

ctgatcgccg cgtacacgat ccatggcgcg taccagctcg ggatggagca cgagatcggc 300

tcgctgacgc cgggcaagcg cgcggatctc gtcgtgctcg agaacgacct gttcgaagtc 360

ggccagtacg atatcggccg catcgacgtc gcgctgacga tgatggacgg cgacgtcacg 420

cacgtcggcg acgatttcgg cgcacgca 448

<210> 30876

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C7

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caggcttgag agctagtgtc gctaaatcct tccttggatg tctgatgcga ttcaaattcca 120

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gcaagatcag cttcttgttt ggacttcgaa actgaaacct ggtccaggca atcggcaaatt 240

catcctgcca tcttgcgata ctgtatccaa gccagcttaa actcacctgg atctgacgtc 300

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<212> DNA

<213> Zea mays

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<400> 30877

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 gccttcaccg tctcttgctt caaagcctcc actccgagat attaggaaga accttgagga 180
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 gaactac 427

<210> 30878
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 gcatgtcacg taaggtagac gacgacgacg actacattga acggagggac actagacgaa 180
 gtgatcacta gtgggtgcat gatctacttc tttattatgt gccagtctga tgcattgacac 240
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<210> 30879
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 30879

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cgcaacatca cgtcaacga ggcccagtc cg 392

<210> 30880
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D10

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aagttgcagc aatgcgtgcc agtaaagaac aagaaatcag agccaagcgg cttggtacga 180
aaggctctgg tagttcacia ctgcttcttg gaagaaacgc accacgaagt ggggccatgc 240
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caccatttgt tctgttcta tctattaat ttcgtggcta aaatcgtagc acagtgagat 360
gaccaacaa tacctagatc tgggtaagag taggctcgga tctgatgaga ccattgtggg 420
agtg 424

<210> 30881
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gagagcactc ctgtttttac tagctgcaaa agggcgtggt tgagactagc ggaccgaccg 180

gcctgcgcgg cgatggatgt caagtgccgg cgtctggagg ggaaggtggc catcgtgacg 240
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 gtcgtcatct cctccccgaa gcagaagaac gtgaacgagg cgggtggaggg gctcagggcc 360
 aagggtatca ccgcggttgg tgccgtctgc cacgtcttcg acgcacagca gcgcaagagc 420
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<210> 30882

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D2

<400> 30882

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 gagcaccctg cagactctgc agtgcacgtc acaccacgag ctgtgcgagc gcaacatgag 180
 cgagttcatg gtggagctga tactttctga catggctcct gccgatgcat agactagacg 240
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<210> 30883

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D3

<400> 30883

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<210> 30884

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D4

<400> 30884

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atcggagata attcacgata ccttcgcttt gaagattcta aggcagctga aaaagcccg 180
atgtctgcag tacttgctga tgggtggcttg ataattaagg accacattgt tactttggag 240
cctgtgactg gtgaagctga gaaggattat tgggacacaa tccgcagtat tcaaggaaag 300
tacaaggata gttgaagcta caagggaagg gcttcaaata accagagagg aggaaagcgt 360
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<210> 30885

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D5

<400> 30885

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tgctcttcca cagcctacgc ctcgtccaag gcagggttca ccttcacggt ggggtaccac 240
gagctcgccg gcacatacgt gacgctcaag aagcctctgc tgggtgctcat gaagaagatg 300
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<210> 30886

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-D6

<400> 30886

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 gatgacgacg gcgcgcccgc gcccggtgtt cggggccagg tgtacctgcc cgcgtggcgc 240
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<210> 30887
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30887

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 cggcgtcagc atnctctaca ccatcagcac ctccaccgac tgcttcaggg tgaactaaaa 420
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<210> 30888
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C12

<400> 30888

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 gacagcatgg tcaatggcac ctcaatggat gatgatgata tcgagaagac cgatgcatct 240

cccaagaaaa gcaagaaaaa gaagacccaaa accaaggctg atggtgatgc aatggacgtg 300
 gataaacctt gcaacgttgc tgggtggagaa gctgagcctg gaactgagaa gaagaagaag 360
 aaaaagaagc ataagctgga ggaggaagca caggatgaga acggtgcatc agatactacc 420
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<210> 30889

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A5

<400> 30889

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 catcagccag ggcaagctcg tggaccccat gctcgagtgc ctcaaggagt gggacggcaa 180
 gccgctgccc atcaacgtca agtaaagaac gccaaggaga agaggaagga ggggaggaaa 240
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 atcgttcttc gttgttgatt tttggttgta ttgatcgatc cgtatgtgtg cgtgcgtgtg 360
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<210> 30890

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A6

<400> 30890

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 caagtggttc gtcggcatca gccagggcaa gtcgtggac cccatgctcg agtgcctcaa 180
 ggagtgggac ggcaagccgc tgcccatcaa cgtcaagtaa agaacgccaa ggagaagagg 240
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<210> 30891
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-A8

 <400> 30891

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 tatgagattg taacctctat ggtactatgt gccatttgtg ttaaagctcg tatgcctttg 180
 acttgtcttg catcggtctc tatcgtgata cataaacatt cggaacttgt atgcattgta 240
 aacgaaatgc tggttatgcc c 261

<210> 30892
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-A9

 <400> 30892

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 ggggccctct cgtatatcgt atcagcagcg tggcctgtgt aattggatat acgtcatctg 180
 tacgagcgcc atggcccttg aggagctggt gctttgtgtt gttattagtc gtccgttgca 240
 gattttaaag acatcgggtt cagggtgggc gccctggcc ctgtttggtc ggaaaacagg 300
 cgctctttca aaatgagtta tttctttgta ccgt 334

<210> 30893
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B1

 <400> 30893

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gaaacggtga atcagggtgg ggaaggtctg gggaaccatg gaacagaagg gatttgatgg 300
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<210> 30894

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B10

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taggtcatgc tttaattttg tggtttcgct ttgtgaaacg agaatgcaac acgtaataaa 180
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caacgggtctt taacgactaa atgattgagc ttgcggtgct attctttatc gacgtataga 360
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<210> 30895

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B11

<400> 30895

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caagagcgag ggcaataccg gcgggttctg caagctcggg gcttgcatgt gcaccaaaga 180
gtgtgtccga agtactgacg ctgctggtgc taataaagcc ccacagcagc atttgagttg 240
atgagtagta aagaagaacg cttttgttat gccagcgcaa gctctagaat tcgaggccga 300

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331

<210> 30896

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-B3

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cgggtacgag atgggcagcg cggcgctgcc ctccgcgcg tgctgcagcg gggcgcgctc 300

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catg 364

<210> 30897

<211> 420

<212> DNA

<213> Zea mays

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<400> 30897

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ccgatctgtc tggaccggtt tctgggaatg aagcgctct agttctgaag aacaaagccc 180

cgcgctggca cgagcagctg cagtgtgtgt gcctcaactt ccggggggcgc gtcaccgtcg 240

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cggagcagga gaaggtgatc ctccagttcg ggaagatcgg gaaggatata ttcaccatgg 360

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<210> 30898

<211> 328
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-B5

 <400> 30898

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 agctcgtcac tgtgccgctc gtgtccttca ctcccggtcc gcccaaccaa taatccatcg 180
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<210> 30899
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B6

 <400> 30899

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 tccgacgtgg cctactgccg acatctcggg actgtgccgt gcgagtgcac cactcctggt 180
 ccggccaacc aatgctccat ccatgcatga gccaccacca cgccggtgcg gcaacgtgcg 240
 gggcgccat actgtc 256

<210> 30900
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-B7

 <400> 30900

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 ttttatactc atgtcaataa catggatgga tttttttag ctaagctgaa aaagttgagc 360
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<210> 30901
 <211> 405
 <212> DNA
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 <223> Clone ID: LIB3067-045-Q1-K1-B8
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 caggaaggca gattgttctg gcgaagagac ggcgtggaag gccgtgatgg agaggagctt 180
 cgcgcgactg gacgagcagg ccgccagctg ggcgaccagc cgcagccgag acgagccctc 240
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 cgccgtcgtc agccccaccc acgttgcgt cgccaacgcc ggcgacttcc gggccgtcct 360
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<210> 30902
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-B9
 <400> 30902

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 tggtaggcgt ttctgtggtg gtagtgctta tccttattca tgaaggagaa cctagaagct 180
 agaagccttg aaaataaatt aaaccctcga gatgactaac aaattgccat ttaacggatt 240

tttttggtat agctgaacag gcggtgtttc agctggaaat ggaaacaggg ggaatgggca 300
 gcggcctgta acgactttct gattgagctt gcggcgctct tctttctcga cgtatagacg 360
 gagttctgtg agcagtatgg aacctgcttg ggtcttgatt tgtaaatggg acgggtagaa 420
 agcttagtca aataactatt 440

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 <212> DNA
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 <223> Clone ID: LIB3067-045-Q1-K1-C1
 <400> 30903

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 cctaaagcct ccttccaatc aagttcatcc taaaattctt gaagtatgga taggttcaat 120
 agatggaacc catgttccag tatcaatgtc acccgatcaa gccgcaccat tcaggaatag 180
 gttgggagta gttgtacttg gttccctgca gctgacagga aatattggtc atatggagac 240
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 ttgggctcag catgtaatag aactgaaaga aggttggttg gagacttgta tgacatgctt 360
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<210> 30904
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-045-Q1-K1-C10
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 caaggagctc gagaacggcg tcctgtggga ggtcgaggga aagtgggtca cccaagggtcc 180
 tgttgatgtg gacattggtg ccaatccatc cgccgagggt ggtgaggacg aaagcgttga 240
 tgacacagct gtgaagggtg ttgatattgt tgacacattc cgtctacagg agcaacctcc 300
 ttttgacaag aatcatttg tgtcttacat caaaaaatac atcaagaatc tcactgctgt 360

gttggagcca gagaaagcgg atgagttcaa aaaggggtgtc gaggggtgcaa ccaagtttc 419

<210> 30905

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C11

<400> 30905

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tatcaaaagt tcagaacgtg gtcatgtaac tgaaaatgta aaagttgtaa gctgatcttt 180

caagtacaaa aatgaatgta aagtcctct taatttattg ttttactaat cgatccatag 240

tgogaatact catgttttta tttcagctag cactagtgtt gcaattctgc ctgacttgac 300

atgattaatg aaaaatgaga catgtatttt tc 332

<210> 30906

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G7

<400> 30906

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cattatgatt ttgagttagc aaaaaaaaag atagcagcaa ccgactagat caaaatttga 120

aaaactcaaa tatagattca cggggataga tatgcaataa gattcatgct atgttctgtt 180

agttgaatgg ttgaacatgc atgtatcttt cttgaattct gtctgcagca acatttgctg 240

ccgtcgtcct tggatgtgtc gcaattgttt tgcttcagac tctaaacaac aggaaaagat 300

tcaacagaaa tggaggtaaa ctactgaatg ccagggcat aaccacctac accaaaaggg 360

agctgaagaa gataactaat ggctacagca aacgccttgg acgagggcac tttggcaatg 420

tttacgaggg caccatcgtc g 441

<210> 30907

<211> 267

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30907

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 ccggncncc aacacacaaa agcgagggcc acaaagcagc cagagcccgg aggcagacgg 180
 caccagacag agcancnagn ncaggaagag ccgcagaaga agggggcgga aaggacaggg 240
 accangagaa gggggggaag aagaaaa 267

<210> 30908
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H11

<400> 30908

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 aagcaaaca acgcgggcag gcaaccacga agcgcgcaaa cagaaacacc aaaaccgaag 180
 acacaggcca cccaaaaaca acgccaacc cggaaaaacc caggaagccc ccaaccaaac 240
 cgccgcgcaa gacaaccaa gggcaccagc ggacgcaaca acacaacagc ccgcacgcac 300
 c 301

<210> 30909
 <211> 321
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-H12

<400> 30909

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cgggtgcgacc tctgcgacac gccaagggc aagaaggaag acaagccgag gggctttcttc 180
 tactgtttca gcgagtgcta ttagcacgag ccctcccaa ggggaacact ccgataagct 240
 agcaaatact gaacgaacac cggctctccc cagcttcgat gccctgcgac ttaagccaat 300
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<210> 30910

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H2

<400> 30910

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 ctgctcaacc ttggggacag catcaccacg gaccacatct cctactcggg gaagatcccc 180
 gagggcacac ctgcgggcaa gtatctgctc gagtatggcg tggagcccaa gaactttagc 240
 tcctatggtg gccgcccggg gaacaatgag gtggtgatga ggggagcggt tgccaatatt 300
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<210> 30911

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H4

<400> 30911

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 gccaggcact tgcacattgc ctggccagta gatccattga taaacggaca ctatccacag 180
 ataatgcaag atctcgcgaa ggagaggctg cccaggttca ctctgagca ggctaaactg 240
 gtgaagggct cggcagacta catctgtatc aacgagtaca catccagcta catgaagggg 300
 cagaagctgg tacagctggc cccagtagc tactgtgccg gatggcaggt tcaatatgtt 360
 cgtgcacgca atggc 375

<210> 30912
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H5

<400> 30912

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cttctattac gagcaacggt ttatattctg tgcttgcata ataaatcgaa gaaatcctga 180
caccaatcga actgaagatc ctgaaacgca cgttaatacc gttgacgtcc gcttcaccca 240
gctcgatttt cagtcttgta ataataattg agaactccaa tgaactgaga gttactaatc 300
gctccatgag tctgaagcgt gcaaaaattt aggtcgcagc tacacaaatt tacacgctgt 360
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aaaggtcact 430
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 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 30913

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aggctacgga cggaacagtg cagtttcaag ctagtgagaa ggattacctc ggagacatca 120
gtcgagctca agattctctc tgaaaaatgg cggcttctcc tcgctggcgt catttttcag 180
tgcattcatg gtttgccgcg tcatgggggt cattatttgc accggccggg gccaccctt 240
caagatcttg gttcatgat tcttccggag cttgggaaag aaaggggtta catcagtgag 300
acattgttta cgttcatctt cctcgccctt gtgttggtga catttcatcc tttcatcctt 360
cagactaaac gcttctacac tgttctgata tggcgcangg tacttgcatt cttatgtgtt 420
tctcagtttc ttcgaaatat aacattctat gcaac 455
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<210> 30914
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-H7

 <400> 30914

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 tgtgcttgac cgagcaatga tgcagcataa tctccttagt gccagtaaac tttacacaca 180
 tatcagctta gatgagcttg ggacattact ggggattgat ccaagagctg ctgagatgat 240
 agcagtctcg agatgagtga atgggtgatcg aatgctgagc tcaataaatc aggatgagggc 300
 tgagatacat tttgatg 317

<210> 30915
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-H8

 <400> 30915

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 ccttcgatgg gcgatgtgct ctggaacttg gagtttgccc ttcagatgca ggagagcgcg 180
 gaagagagcg gaagcctcgg ttgtgggatg tcggacgagg gcactcccct tgtgatggtc 240
 gggaagaagg atccaaatga cccgtcgatc gaatcgagca ccaccaccac aaccaccact 300
 tctttgagca tgggcgatca gacgctcgcg agtatggact cggatgggct gacgcctagc 360
 gccgtcttct cacagatcat gaaccccaag ggcggtgagg taaaactggt cccattcggt 420
 accttgcatc cattcagcat gtttttttca 450

<210> 30916
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H9

<400> 30916

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ggggacgatg cctatgagat gcgggtgaag cttatcaagc aagtgccgga ggaatacccc 180
tacatggatg atgactagtt ctattttagt gcaagattgc ttgtttggat tttgacatcg 240
ttttcgtcga tgggtccgtag ttctgctata acctgatatc atacgaggaa agctgcgtct 300
gttttgcttg tgtattgtag aaatcataca taatcttt 338

<210> 30917

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-A1

<400> 30917

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gaggtggagt cctcggacac cattgacaat gtgaaggcca agatccagga caaggagggc 120
atccccccgg accagcagcg gctcatcttc gccggcaagc agctcgagga cggtcgcacc 180
ctcgccgact acaacattca gaaggagtcc accctccacc tgggtgctccg cctccgcggt 240
ggcgccaaga agcgtaagaa gaagacgtac accaagccca agaagatcaa gcacaagcac 300
aagaaggtga agctctccgt gctgcagttc tataaggtgg acgacgccac aggcaaggtg 360
acccgncttc gcaaggagtg cccaacac 389

<210> 30918

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A11

<400> 30918

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gctatctgcg tcggcgacac cagtgtcggg cttggtgcgg aggggacgaa cgaggacgag 120

gatgcgtagc ctctgccatc agacttggtg tggcgggagc ctttttttga tcagatgatc 180
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gatcgcgatc gtctcgctcg agtcagcctg tgtgatgcgc ttcagtcgag cagaaccagc 300
ctctgactca ccgaagcaag ggggcagtgc cagtgaatct actgcagagg tccccgttct 360
gctgaacccg ggctcccttg cgtcatgtc tggcgatgcc aggtatctgt ggatgcatga 420
gatt 424

<210> 30919
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A12

<400> 30919
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aaatatgatg acgaacaaga gcagtgtgtg ttcccggtcc tttccaatca ggatctggtg 180
aagtttttgc ctttcatatc gaagaaatta ataattcatg tagagggagg attcttataa 240
caatttgttt tggatggaga cttagatctc caaacactcg taactatcct actaggtggt 300
gacatcagtc cccaaaaacg tctatggtca tagagtctgc ctttcgtttg tcagtcgggc 360
aatttttctt gcatacaatg ctttcgttta agtatcggat gagttgctgc gac 413

<210> 30920
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A3

<400> 30920
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gaccccatcc aaccgcgacc agcagccgcc catctacccc ggcaagcagc tcgcggaacg 180
tcacaccctc gccgactaca acacacagaa ggagcccacc caacacctgc tgcaccgact 240

ccacgcgggc gccaaagaaac ccacgaagaa cacagacacc aagcc 285

<210> 30921
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-G6

<400> 30921

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gggaaggtga tgccggacga gtacgacgag cggctctact gcctctacga cactgacgcc 240
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gccgccacgt ggtgc 315

<210> 30922
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E8

<400> 30922

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cacagataca cctgtaccta gaatgcttta atagatcctc atacgaaatg gacattgtac 240
atttctttta acaagtcagt ctcttgctca ttataatctg gaaccatttg caattaaaa 299

<210> 30923
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E9

<400> 30923

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agaggggtaaa aaaaaaaaaa aggccgggca aaaaaaaaaa aaaaaaaaaa aggaaaaaaa 120

aaacaaagga gggccgcaca gaaataacaa acagagaaaa aaggggccaat aagacagacg 180

agagacagcg gagagggcac cgatagagat gaaaagccgg cgcattgtaga agaaaggggg 240

ca 242

<210> 30924

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F1

<400> 30924

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aaaagaaaaa aaagagaaag gataaaataa aaagagggcc aggcaaaaga agcacaagca 120

aaccaaagag ggcaaccac acaaaagtgc cttgacggag ggacccaa 168

<210> 30925

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F12

<400> 30925

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aaccaagcca caaggcgggg ccaccgtcaa ggagggcaca ggacaacaga ccaagcgccg 120

acaaagaacc acgccgggag ccacacccca caagagagac cnggacccag cgaacggggc 180

gcagca 186

<210> 30926

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F2

<400> 30926

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agagcatgaa catgccgtac gctaagtcca ggtactgccg tgggtgtccct gacccaaga 120

tcaggatcta cgatgtcggg atgaagagga aggggtgttg cagattcccc gacggcgtgc 180

acctcgtctg ctgggagaag gagaaagacc ccagcgaggc gctcgaggct gcccgattg 240

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<210> 30927

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F3

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ttaggctatc tccagcaaga taaaggccac gaatcccggg tgtggtgctg gcgtggaggc 120

agcaggcaag aagaagcagc agatctaccg atggaccgcg agtgaccgtg actgcgagct 180

catggggctc atgtggctgc tgcagcgcaa tgccacacgg tacggagcgg cgccacggc 240

cgtgatccgg gccctaattg ccgtggacga ggcgttcacc gcaggggtcg cggtggcggc 300

agatacgggg gcagccgtgg cgtgctcgtg gcccggtggac gacgacatgc cctnccggc 360

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gctgctc 427

<210> 30928

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F4

<400> 30928

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tcctcaccac cttcgggtgct ttcgcatatg gcatgtacca ggtcggccag gggaacaagg 180
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 aagcagaaga ggatgaaaga tttgtcaaag agtggaagaa gtgtcttgag gaggaagcga 300
 ggatcatgaa agacgttcca aggtggaaag gccgccagag cgtgtaccac tctgggaaat 360
 ggattccccc g 371

<210> 30929
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F5

<400> 30929

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 ggtggcctgc acgctgcacc acctcacgct cgaggccgctc gaggccggat ggaagaagct 180
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 gccacaaggg ggacgccacc gtcttcacca acgccgacct ttgcgccaag gaaggtggac 300
 atgaacctgg ttggcgtgag gttccagtag aggatcctgt ggtcaaagat gctgcacacc 360
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<210> 30930
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F6

<400> 30930

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 cctctacggg caattcgatc tgcatcatgg aaaccatttt gattgttggc tgcaactcca 180
 tttgctattc tagcccgaga aggcagccct tgttcacttt catcatcggt gttatgcttg 240
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cggtctcttg acttaactag gtcaggatcc tcggagccat gttttcgctg aacacccaaa 360
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<210> 30931
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 30931

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agcagacgaa gcgagccagg atccttagna atacgggggt acgcgtatgt caccagcatg 120
ctcttagcac aaataatgtc cagatggctg cagagctggt agcagtagca gaccagaatg 180
ctctatgtat gtttcacgtc ctgatggcag atgtgcgcga gaaagcaacc ctatttatct 240
gagggattac tacgagatca aggaaaatga ggtcgcgttc ttaaaagagc ggacgggggtg 300
cagacagaac gcgatcgcca agatcgctga ggacaagcac aaggacaagc tcccgctcaa 360
ctttcgcaag ctctgcttt gccagctcaa g 391

<210> 30932
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G1

<400> 30932

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ccaagacctg atcagttact tcatgtctga ccctgtccac ggtgccatcg aagtctgcgc 120
tcagctgagg ccactgttg acatctcagt gaccgctgat gcagatttcg tgcgccaga 180
gcttcgacag tcttcataag cttgtatgga tccgcagtgt gactgcaatg gctagcttgt 240
aagaacttaa tatgcctggg ctcttgaact ctcagattgt gcctgtatag ctcatgtttg 300
aggac 305

<210> 30933
<211> 209

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G10

 <400> 30933

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 agccggagcg aagcgaccgn acaacggaca accagcgcg aaggcacaan ccccgagcc 120
 ggacaagcaa acggcgagca cnggaggccg agagcgagca cgagaggacg gcccgagcg 180
 aagagcagaa aaggcaaaca cacacaggc 209

<210> 30934
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G11

 <400> 30934

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 aatgactaac cagttaaact atttgtcacc agctattatc accaaaaatc atgcaggtaa 120
 tatcaagaat ataaaaactc ggccggtggg gaaagaccgc cccacggtat ttcactaaga 180
 agagctcaat cagagcatga gctggcccc tcatacatag ggatgtctcc cctatggttc 240
 gggccttgac ccatgctttg agggccaacc cacatgacca gcctcttaca cgagggctcg 300
 ttcacccatg ccgactaaga gaaccagcga gtgacgtttt ttttaccaca gtctgaaatt 360
 tgatctcaca gggagtcgaa cctaggatct gagtgtgtgt ac 402

<210> 30935
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G3

 <400> 30935

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ttctattgct ccgaagcccc agttgcgagc tgtctctctcc actcttctcc ttcactgtcg 120
 cagccgcccc ttgtagaagc ttcgaggctg ctgctgctgc gcccatggcc gcggaaggca 180
 agacgccgtc cctcgccgag gagtattcac ttccaccaca ggaagttcca gtggaaaagg 240
 cagctgagga gaagccctct agtgggtactg agtctgaagc tgctccctca accaatgatg 300
 aaactcctcc atctgtagaa gacaagaatg gaacttctga agtacaagat gctgctgaaa 360
 atccagaggc agaagaaact aacactgctg canaggaaac acctgctgta gaggaagcaa 420
 gtgagactac cgaggagg 438

<210> 30936
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-G4

<400> 30936
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 acggcatgaa gattgctcac gaggagatat ttgggcctgt gcagtcgatc ctcaagttca 180
 aagacctcaa tgaggttatc aagagggcaa acgcgagcca gtatggattg gccgccggcg 240
 tgttcaccaa cagcctggac acggccaaca ccttgacgcg cgcgctcagg gccgggaccg 300
 tctgggtgac ctgcttcgac gtcttcgatg ctgcgattcc agttggcggg tacaagatga 360
 gcggcatggg gagggagaag ggcc 384

<210> 30937
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E6

<400> 30937
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 ccaggccgtg cttgcctgcc gcgcccaccg ccggtccgcg ctgcgccta cacggagcat 120
 caggagttca ggcgcggcga acagggggga gaagcagcca acctcgctcg ctactcgcta 180

gcctagtcgg cggttgccat ggggatcggc tacgtagtgg gcgttctcgg tggcgccatc 240
 ctgcgccacg ccgcctacgc caccatccag taccggggcg tgctcaagat cacggaggaa 300
 gagttctcgc ggccgccccat ggatgtgatg atggagttgc tcctaggggtt ggctttgtgc 360
 atgtgggcag gtc 373

<210> 30938
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G5

<400> 30938

gatcgttcat aagtgtgcag attattatatt ggtgggcccata tatggcctaa tctgacacca 60
 atgcatatcg tcctgagctg taaaaacaga aactacaggc caataatagc ttaattttta 120
 gagtacaaaa atctgttatt tgctgatag tttatctgga gcagtttcat ttacatatg 180
 actgtaattt gtgagaatgt acatcttacg atttttgttg accagtattc ataggttttt 240
 agttagcaat gtgttggttg cccgttgcta gtccttgtaa tacaagccca cctgtttatt 300
 tttgcgcatg gcaagactta acctggaaaa aataaatata aaatt 345

<210> 30939
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-044-Q1-K1-C8

<400> 30939

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 natgaagcta aggtctggta gaagccatgg gagaacttca agcagctgca ggaattcaag 120
 cctgttgaag aggggtgctag cgctaagga tctgtcgtct ccctgtgcaa tttgctgcct 180
 gaagcgcaaa actaagttac agaataagga gctgcttcgt aacatgccag agcatgcacc 240
 ctgcgtaat ttcataaaat cacagggtc ttaatgtaat atcttgaatt gccgtgccat 300
 gtgtaataag taatatcatg aataacagtt gctattatgg gttctaaagg tttattaaca 360

gccatccatg ggccatggca gaattctcat attaacttgt tg

402

<210> 30940

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C9

<400> 30940

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caaaagccaa acggaagcgg cacgcgtaac aggaccaaca aagggaggag ccaccagagc 120

gagaacagca tcaccgactg caagagcggg ggcaataccg gcgggtactg caagctcggg 180

gctagcatgt gcaccaaaga gtgtgaccga agtactgacg ctgctggtgc taataaagcc 240

ccacagcagc atttgagttg atgagtagta aagaagaacg cttttgttat gccagcggaa 300

gctctagaat tcgaggccga gatgacccaa aataaatgat tttgttactc t 351

<210> 30941

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-D1

<400> 30941

accacgcgtc cgcgaggaaa atggactact acatgnacca taggattaca cgcccaaggc 60

tcaggcagcc ggggcgggtg aatcaaacat ggccacggac atgctcaaga agaacc 116

<210> 30942

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D10

<400> 30942

ggttcacttc tccagttaaa gtgttcgtat tcattgcgcc gccgcagcca aagtcggggc 60

tcttcgttgg catcaacaag ggtcatgtcg tcaccaagcg cgagctgcct cctcgcccg 120

gccaccgcaa ggggaaatca acgaagaggg tgtctatggc caggggcctg atcagagagg 180

ttgctggggtt tgctccttat gagaagcgta tctactgagct tctgaagggtt ggcaaggaca 240
agcgtgccct gaagcttgct aagagaaagc ttggaactca caagagggca aagaagaaga 300
gagaggagat ggccggcgct ctcaggaaga tgaggtcggc tggtagcac actgacaaga 360
agaaatagag agcatttcaa ggtcatggaa cctgccaaag attatgttcc ag 412

<210> 30943
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D11

<400> 30943

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aatgactact atcagtactg cgaaggataa tcccataagc gatgcggcta ttcgcatcct 120
atgaagggtgt tactggaaat gcttacgatg cataaatgca tgggccgcac atgatggagg 180
cataatacct atggtatgac ttgactggag tggctcgtctc cagaagcaga cctggtctgg 240
caaggacgat ccctgagctg gacaaaaaca tgtatggaga catcgtcgat gtgtgtgact 300

<210> 30944
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D12

<400> 30944

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ccggaaggcc ggaagattgt acacgcggcc tgatctggaa atggtactct ccatcgggta 120
gggtggcggg cataacagac tcatataacc agcttgctca acttaatctg tctgtcctgt 180
atcaga 186

<210> 30945
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D2

<400> 30945

cggtacacat ttgctgtatc gtgtagatct gattgcaggc caagcaacaa agtgacgtca 60

ggacacgccca tctggggaaa cataaactga tgcgacgcga tggcctgtaa tgtgttgttg 120

ggatctagac tagatgagat ttatttaatg taggtgcttc gttgatcatg tattatgtta 180

tgtaatagac gctttgctgt atcgagatgc aggcctgcag cttggcaacc tggccgaatt 240

tgggcagttt ctttcatgct tctttt 266

<210> 30946

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D3

<400> 30946

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agctgctgcc atggaggcgt gtagatctct cctcgcgagc gtcgtgctcg ccgtgctggc 120

cgcgcaggcc ttggtggccg tggtcgagtc caggaccggc cccgtggagc acgcgagcca 180

aggtgacgac gtgaagaagc cggactgcgt gccggggata gaccgcgct cgttcccggg 240

caccggcggc ggccacggca tcacgcccgt gacgccatcg cacggaggct ccagcttctc 300

gacgccgtcc cacggcg 317

<210> 30947

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-D4

<400> 30947

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ttgcatgcgt agtacgtacc cagcagcagc tagcactagc agtccatcgg agcgacgatg 120

gtgagaagga cgggtgctggc ggcgctgctg gtggccgccg ccctcgccgg cggcgcgcgg 180

gcgcagctca aggaggggtt ctacgactac tgctgccac aggcgagaa gatcgtcaag 240

gactacgtga aggcgcacat actccacgcg cccgacgtcg cctncaccct gctccgcacc 300
 cacttccacg actgcttcgt caggggctgc gacgcgtcag tgctgctcaa cgcgactggc 360
 ggcagcgagg ctgaaaaaga cgcggcgcc 389

<210> 30948
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D5

<400> 30948

cttaaccctc gttcctctag ccttctctgtg cagccacagc ctccatttct cctccgcagg 60
 cgggtgctgt agctcaacca tggcgggactc caaggccacc tcggcgggtca ccctccgcac 120
 tcgcaagttc atgaccaacc gcttgcctggc ccgcaaacaa tttgtgcttg aggttatcca 180
 ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240
 ggtgaaagac cctaacacca tcttcgtcgt caagtttgcg acacacttct gtggaggcaa 300
 gtccactggc tccggcctaa tctacgataa 330

<210> 30949
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D6

<400> 30949

cttacgcgtc cgctgttgac ttttggttta cctgccgacc gccaggacca cgctctactg 60
 atacttggca tccatcacct ggcacacacc atcagacgaa atcacataag tcgcgtgctt 120
 gcattcccag cccatccgaa gcgaagcacg ccaccggcct cgaagggatc agcttctcta 180
 gcactcatca tcgtggcctc gctcctcctc ttctataacg gactgcgtct gagtggagat 240
 acgcgccgac atagaccgac tatagcgctc gctgcctacg attgatggcc tcaccttcac 300
 caaccgagtt cactagggaa gcagctcgtc agcctctcat cgcaatctac cagaccattc 360
 cggagacacc ttgatccgag actgataagg ca 392

<210> 30950

<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D7

<400> 30950

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ctagtcctcc cgtcgtgacc cgtacgcacg atctgcgatt ggccgacgcc cggctcgccc 120
tcgtcaacaa aagcacaccg caagcgagcg aaaccgagca atagtgcac tagaacgcac 180
gggctagctg agcctggatg gacgacctga ataatgaagc aactgcgtga tatgcatgtt 240

<210> 30951
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D8

<400> 30951

ctagttctag agcgcttcgg gatcgctttc ggccatgatt gatcgcgaaac gagcagagga 60
aatgcaagtt aataatgagg caccactagg gtgcctcaag ccaaataatt ctcagtataa 120
ctctccagag cagataggtg gtggtgaagg gtttcctgag aataatgaaa aaaggaatga 180
tattgttgct gcggaaaaaa tctgggaggg gactccaaac caaggcctta gcaggcccat 240
ctaccgacaa gaatatttatg cctggccata tattttattca gattatcaaa tcgtgcgtca 300
gccactacct tatggttttg acaaccaatt ttatcagata aatagggacc acggtttccc 360
tattgagaac agggttcaat atcttccatt caagatgctc cc 402

<210> 30952
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D9

<400> 30952

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tgttacaaat gaccatttca agactgcgct tggaacaagc aaccatctg ctctccgtga 120

aactgttggt gaagtcccaa atgtctcttg ggaggatatt ggtgggctgg agaattgtcaa 180
gagggagctc caggagactg ttcaatatcc tgtggaacat ccagagaagt tcgagaagtt 240
tggcatgtct ccatccaaag gagttctgtt ttatggctct cctgggtgtg gtaaaacctt 300
gttggcgaat gcaattgcc aacgagtcca ggctaacttc atcagtgtca aaggctcctga 360
attgcttacc atgttggttg gtgagag 387

<210> 30953
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E1

<400> 30953

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cgcgttcaga attccgagcg gcagcggcgc tcctaattgca cgcggcacag atgtcccga 120
ggccaatggc aagctcacgg ccaggccctt ggagcatgct agccaa 166

<210> 30954
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E10

<400> 30954

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gtgggacgac gtggtggccg ggcctcgccc ggagacgggc ctcgagaagc tccgcaaggc 120
caccaccgcc cgcccgtcgc tcatcaacaa agacgcggac ggcggcagct acaagcgggc 180
gcagtcgacg ccgtcgaccc cgacgacgcc ggtgacgccg tcgtcgtcga cgacgccgcg 240
cggcgccggc aacgtgtggc gcagcgtctt ccacccgggg agcaacctgg ccaccaaggg 300
catgggcgcc aacctcttcg accggccgca gcccaacttc cccaccgtct acgactggct 360
ctacagcg 368

<210> 30955
<211> 257
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-E11

<400> 30955

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gaggactaac gaggaggccg ggcctcacia aggagacaac acccgagaag caaaaaaaag 120

gaaaagaccg cccgcccaaa cggcaciaaac aaagacacgg acggcggcag caacaagccg 180

acgcacaaga cgccctcaac gccaacgacg cgggcgacgc cgaacaacgc gacgaccgca 240

aacaccaccg cggacgc 257

<210> 30956

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E12

<400> 30956

cccacgcgtc cgccctcgcg tccggctttg tcttcttgaa gattgttatc aacactgggg 60

tgatgctgag ttacgtgtcg aatctcgctt tctcgaggcc aaggccgtgc tcgacaagac 120

gtcggacacg cccgctgagg ccgagcagcg gctgctcgag atcgaggacg tcgtgatgga 180

cagcagcggc gacagcggcg cgtggaagga ggtggcgacg aaggctggcg tacagcgcgt 240

gttggcaacc cgggtgacgc tgcaagtctt ccagc 275

<210> 30957

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C6

<400> 30957

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aagcgagcgc gactgagctc aaaggtagcc tgagcaaata acttaaacag gtgtcagatc 120

ccactctgcc tctgagctgg aaagggcaga aagcattcaa atctgagtct gacgtcaaga 180

atgaattcaa gtcaatggct ctgagctttg ccagtgccaa gaatgccgcc atggagatcc 240

cacctgaaaa ctacctcatt gtcacaaaaa atggaaatgt gtgcctgggc atccttgatg 300
gaacggctgc caagctgagt ttcaacgtaa ttggagacat cacgatgcac gatcagaagg 360
tgatctatga caacgagaaa tcccagctgg gaatggggccc gaggggcat 409

<210> 30958
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E4

<400> 30958

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caacgtctgg aactcgcacc ccaagaacta cgggcccgga tcccgctct gccgtgtctg 120
tgccaaccct catggactga tcaggaagta cgggctgatg tgctgcaggc agtgcttccg 180
cagcaatgcc aaggacattg gcttcatcaa gtaccgctga aatcagggtg gaatggacca 240
tgtggtagag gcgaggttgt agttttatct ccagtaattt agatgttttg ttcaaaagtc 300
tgctagtaaa gactgctacg tttatgatgg agaacttagc catgttggtc atgttggtca 360
tattgatcat gagttaccta tgttgagc 388

<210> 30959
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A9

<400> 30959

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gaatgtagca tagcatcatc ggtttttgtg tttcattaat tctcatttca agatggcatc 120
tgctggccta aagccagggg tgccgtttat tctacgggag ctggagccat cctcagagat 180
gttcaagcaa ggagcgtccc ttcgagtcac aggaagtctc cagtcattcg atgtggagtc 240
cgcgactgcc accattcaag actgcagcgt aagtctgaag gttgacaccc agcatctgag 300
ggatgtcagt ttccgcacga actcgggtga ccaattcatt ggtgaacttc agatccgcga 360
agttgatgat gccattctac tctcgcgcat ctgaaggaac gt 402

<210> 30960
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B10

<400> 30960

ccacgcgtcc gcgtcgaaga aaaatctttc gttaggtgat gagatgtctg gaggaagaaa 60
 gcaatggaga gcaggctcat tttgttccat gtgcctgcct gcgcatactg cctctctgtg 120
 caaattggcc gtactccatg aatcacactg caattctaaa aacgcttagc gaaacgagaa 180
 tgcaacacgt aataaacgaa aaacaccggt tggctttaca atg 223

<210> 30961
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B11

<400> 30961

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 ggacttaaaa cgaatggact ggaaaaactg tggctttacc cagctgactc accttgcaaa 120
 agatccgcat ctagcgagct tgcgaacaag cgaacaggcc ggaacgcata gggatgcgaa 180
 cagtagcgca gcatgaaggg cgaatgg 207

<210> 30962
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B12

<400> 30962

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 caatgtcacc tgatatcatc aaagggaacc agatggcgct ctcggtgttc gagatcctgg 120
 accgtaagac cgacgtccgg atcgacacag gtgaggacat caagagggtc gaggggctga 180
 tcgagctgcg cggcatcgag ttccggtacc cgtcgaggcc cgacgtgacc gtgttcaagg 240

gacttgacct gctgatgaag gctggcaaga gcatggcgct tgtcggcatg agcggctccg 300
gcaagagtac cgtgctgtcg ctca 324

<210> 30963
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B3

<400> 30963

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ctccgtcacc gtcgccgctc tacgcgagac gccagggtct tcgccaacga cgagcatccg 120
ggttagagag gaagaaattg caaccgaaac aatggcgga gattccggcg ctgcgagaca 180
accaagcttc accaaggtcg accagctgcg ccctggaacc cagggccaca acctcatcct 240
caaggttggt gactccaaga tggctgtcca gagaggccgc gagggagggc cccaggggaag 300
acagatgagg attgctggagt gcttggttgg tgatgaaacc ggcattcattg tcttcactgc 360
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<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-B5

<400> 30964

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atttgctttt gtggagatga gatctgttga ggaagcaagc aatgcaatgg ccctggatgg 180
cattatgttc gaaggggcac cggatgaagg tagaaggcca acagactaca acccttcctc 240
tgacgcccgc ctgggcccac gccagccaag ccccaatctg aatcttgctg cagttggcct 300
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gtattacttc actgaagcgc aagttcgga gttgcttg 398

<210> 30965
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B6

<400> 30965

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aacctgctta tctcgtgcgg tacagattaa ataatggcac gaacacagag gttactttac 120
tgtacggcca cacatgtctc aatcattctg tagcaatata tggaacggaa cgagtgccgt 180
gctaacacac gtcataataat cgactctgta caacactagg cccgccattg ggtgaccgct 240
tcttggttct ccaaggtgca gctgtcactt gagagcctac tgatcatgat tgtcgatacc 300
tgcgaaatagt ttgccggaac atggatcaag gttgtctgca tcagtttggg ctgaatggaa 360
aggataatta aaagga 376
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<210> 30966
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B7

<400> 30966

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gtagcatggc caatgacgac gacctgatg gctctggtga agcagaagag tggcagatcc 180
tttagacgag gctaagacat gttgggctga agaaaaaaaa aacttgcatt gaaaatgttg 240
tctgaatgcc ctcgctctgcg tgtgaataga ggggattatt tgtgtgatct cggggtggaa 300
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t 361
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<210> 30967
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B9

<400> 30967

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aaggacaaaa gaagcaaacc cacagccagg aaaaaggccg acgcgacaga caaaagagga 180
ccagaagacc acaaaccgag acagaccagg gcacccgcgc gaacaccaac ca 232

<210> 30968

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C1

<400> 30968

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aagagctggc ttcaatatatt tcatcaacta actttgctcc gccatctgag ggaaggaaca 180
gttcactacg agatgatgaa aatgctgagc tggacataga tgatatcgac attgatgaca 240
accacagaa gccaaaaggt ccacatttcc ctggtctaag taaagataaa atcagcaagg 300
gactccaaac ccttaaagga aagttgaagc ccaagactga agaaatgata agctc 355

<210> 30969

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C10

<400> 30969

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gccaaaggagc taatgcatga ctacttcatt ggggagttga actcgtaccc aactcctgag 120
attcctgaga tggaggtttt cagataggaa cacgacacac gatttgccag gaagcttatg 180
gacgttgttg tgcaatattg gtcgatccca gccgctgtaa ttgggatatc agctgttggt 240
gccatatagt gtgcgctaac gaagttaaag ctggtgtgca tgttcctagc tcgttcagat 300

<210> 30970
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C11

<400> 30970

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ccaaccacac tccgagaaac tgatcaagaa gtcccaaagt cctcttgtga cgaaaaagggc 180
ggactaaaaa aagtcaacag ggaactacac gaataaagtg caaaaaaccg cggaacaacc 240
agagaactca gcgaaccatg acacgactac tcacaaagga 280

<210> 30971
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C12

<400> 30971

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ccccgccgg gcgtgcaggg tggacgacac cacggccggc cgaacgaaca ccgccactgc 120
acgactccac gcaagaccgc aatcgcaaga gacgagcgtt gcgccgcgca aaaaccggga 180
cgtgacgaaa gccgccattg acagcatggc caaaggcacc tcaatggatg atgatgatat 240
cgagaagacc gatgcatctg ccaagaaaag caagaaaaag aagaccaaaa ccaaag 296

<210> 30972
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C3

<400> 30972

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 acccatggat acgttgggtgc tgatcttgct gctctttgta ctgaggctgc tcttcagtgc 240
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 aactcgatgg ctgttacaaa tga 323

<210> 30973
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C4

<400> 30973

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 gtcgccgacg cgcgcccggtg cggccacgcg cagacgctcc tcgtctcctt ctctccgtc 180
 ctcaggccga acccggaccc caccaacccg acgccgctca ccaccacagt cgtcacccgtc 240
 ctccgcgtcc gccgcctcgg cccgcaccag atccgcgcgc ccgtggcgct ccccgccgtc 300
 gagtcggagg tcgccgctc gtccgccag gaccgcgcca aggacatcct cgtcgtcgtc 360
 ttccgcctcc tc 372

<210> 30974
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A8

<400> 30974

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 agaagaagaa ggctgatatc aagcagtaga ttttacatct agtttaccaa gaattggaca 180
 ctgccttagc tatgttttga attcatgtca ctatatgcaa tggtgtgatt tcagctggta 240
 ccttaaactc gaagatttag tatctttgtt ggggttcctc tgagtttgat gtgtgggtgtt 300

cgtttaattc ccttgtagaa cccatttag tatcattgtg atgattttgg attcaatctt 360
gctcgagtca gggtagcatt ccaataaaaa tataaagagg aagaaa 406

<210> 30975
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-C5

<400> 30975

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gtgctggaaa gggcagaaag cattcaaattc tgtgtttgac gtcaagaatg aattcaagtc 180
aatgtttctg agctttgcca gtgccaagaa tgccgccatg gagatccac ctgaaaacta 240
cctcattgtc acaaaaaatg gaaatgtgtg cctgggcatt cttgatggaa cggctgccaa 300
gctgagtttc aacgtaattg gagacatcac gatgcangat cagatgggtga tctatgacaa 360
cgaggaatcg caactgggat gggcgctgtg ggcattgcact aggag 405

<210> 30976
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-043-Q1-K1-H1

<400> 30976

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actctgctac taggctggag cctggaggga gggacgatga tccatcagat gggctatgtt 120
actctgtaga tcatcgagat gtttaattagg tctcttggtc agtgcagctc agccaattag 180
catcttcttt cactttttgc ctttttgctg tgttacttag atcattatcg ttcgttaata 240
gcggtgctaa tgagatggca aaaaattnaa ataaagtttt ctaagaaatt aagtaaaaaa 300
aatataaaaa aaatgggcgg c 321

<210> 30977

<211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-043-Q1-K1-H10

 <400> 30977

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 atggcgccca aggccgagaa gaagcccgcg gcgaagaagc cggcggagga ggagcccgcg 120
 gccgagaagg cgcccgcgga gaagaagccg aaggcggaga agcgggtccc cgctggcaag 180
 tccgctgcca aggagggcgg cgagggcaag aggggcaaga agaagggcaa gaagagcgtg 240
 gagacctaca agatctacat cttcaagggt ctgaagcagg tgcacccgga cattggcatc 300
 ttctccaagg ccatgtcgat cttgaactcc ttcattaacg atatcttcga gaagctcgct 360
 gctgaagccg ncaagctcgc gcgctataac aagaagccta ccatcacctt ccgtgagatc 420
 c 421

<210> 30978
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H12

 <400> 30978

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 gatgacacgc aaaaaaagag aaatggaccc aacatTTTTT atagtcgatt ttggtaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aatgaaaaaa aataaaaaag aacaaaaaat ttgtactact ttaatacaac ttaaaacaat 240
 ataaatggta ataataaaat taaatttatt ggctttgatt tttataattt aataaattga 300
 taaaac 306

<210> 30979
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H3

<400> 30979

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aagtctggag gacttattta actactgcag cagaaagttc tcccttaaaa cagtactaat 180

gcttgctgat cagatgatca gtagagtaga atacatgcac acaagggtgtg ttctacatcg 240

cgacatcaag cctgataatt ttctcatggg tttaggacgt aaagcaaacc 290

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<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H4

<400> 30980

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actatgtgca atatgtttga atgcttcaaa ctttgtggg gaaacctttg tatgttgaac 120

ctctgttggt gaagaactag tgtgctggaa ttgtgtaaaa aaaaaaaaaa aaaaattaat 180

aattaattat aaaataataa ataga 205

<210> 30981

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H5

<400> 30981

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aaggatagaa caaacaggag acagatggcg gctgcagcga aggcgtcgtg gatggtggcg 120

atgagcgtcg gggccgtgga ggcgtcaag gaccaggcgg gcctctgccg ctggaactac 180

gcgctgcgct ccgtccaccg cgccgtcaag gccaacgctc ccagcttcgt gcaggccagg 240

aaaaagctgg cgctcgccgt cgcggaacaa gccgtcgtg aggatgtgat gaagaccgtc 300

atgtacctta actgcttggg cccaactag ctagggcctc tgctagtctc 350

<210> 30982
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H7

 <400> 30982

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 tatgtgatta acggtttgac tggacctatg agaatggtaa gtttatttac gtggggtatg 120
 gaaacatgaa cattaatgaa tgtgcaaattg ggttgaggtc ct 162

<210> 30983
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-H9

 <400> 30983

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 gctgaaacga ttgaaagagg cctctccgtt agctttgaag gtctcactgc gatcgatagc 180
 cgagggtaga tatcagacac ttgatgagtg ccttgtccgt gaggaccgca tgtccatgaa 240
 tggaatctca aagcaatttt ctcatgaatt ctgcgaggga gtcagagcac gactagtcga 300
 caaggacttc actcctaagt gggatcctcc tgcccttgag tatgttacga atgacatggt 360
 tgacgcatac ttgcacctc ttggcgattc ggagcctgag ttgaagctgc ctatagaatc 420
 gcgagaggca tttgtatgat caca 444

<210> 30984
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-044-Q1-K1-A1

 <400> 30984

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tcgtgtagcc atcagccttc tcatcgccac caatggccac tgccgaggtc cagaccccga 180
ccgtcgtggc ggccgaggaa ggcgccgtgg tggagacccc 220

<210> 30985
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-A10

<400> 30985
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tctgaatggt gcttgtcatc atagctgttt ttgcggtggt tgtggtgatg ctagcgatcg 120
cctgcttgct aaactttacc aagtccagta agaaatgcaa gagcgaatag ctgtgagctg 180
cataggagaa acgaagattc ggtccagcta taagctggat ttcacactga ccagtgatca 240
cctatgtcaa accatgcctc tgagcaggca agagccagat tgcaccacag cattaagcaa 300
tacactgcgt agtgcaattt gcaaagcgc 329

<210> 30986
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A11

<400> 30986
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gggccaaagt tgatcagcgc tgggtgcaagt gcatatgctc ggctatatga ttatgaccgt 180
atgcggatgg tatgcctcaa gcagatggca ctacttctag cagacttggc acatactgtg 240
tgggctagct gcagctggcg tagac 265

<210> 30987
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A12

<400> 30987

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tcccaagtac agcagcagaa ggcaggggga cataaaggag aggttgaaga atgcatacta 120
tgctcttcac aaggagttta ggagcatttt cgaaagcatt gtgacagatc aaacagagat 180
ctctgatgat gagaaaagtc ggttttacga gatgaaggcc tccgcttggg accaggtaac 240
ctaccatcct gaatgggtcc agaagtcaag ggaaatgttc aagtctgact gtgaggacat 300
g 301

<210> 30988

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A2

<400> 30988

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taagacagat cgaagccctg catgagacaa ctgctcaaac ggcagaggct agggctgatg 180
cggagagaac cttagactgt agcctacacg aagcacaagc tgaagctgct gcttcagaag 240
aaggagcaga ctgtagatca gagagtgtca cagagattat tacggataac agtcctggag 300
accgagattg caactcttag aacagagcat acacagctga accgatctct ggaaaaggag 360
aggc 364

<210> 30989

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A4

<400> 30989

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gcaactgcagc agctgcagct ggccctcctct gggagttgag ctgcgcgcct gagctcattg 180
catttggggtt ggaaaagcaa gccgaggcgg tggagtgtct gttagacaac ttgctggatg 240
ctctcactgc cagacggctt cgtctgggcc gatcgataac tcggaaacag agacatagta 300
ggaactgcat atagggaaag aagaaactca cagtaacaga ggagcatggg gtgccatcaa 360
gtggaaggct gatttcattc ttttttgtag aactcaggag ctgatcattg tcaacaa 417

<210> 30990
<211> 199
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-044-Q1-K1-A5

<400> 30990
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ggggccttgg actctgctat gcgtgtccct gaattggact ctgcgtgttc ggcaggctgc 120
aagccgacac tgttgcagct gttcggactg ctgcagctgc aatccatagg agagaaaaat 180
actggagaag cctcagccg 199

<210> 30991
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A6

<400> 30991
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gatccagtgg ttgttgctga ggatgggaag gtgaaaacgt tccctgtgat cctattgccc 120
aaggagaagc ttgttgacac caacggcgca ggtgatgctt tcgttgaggg cttcctctca 180
cagttggttc taggcaaggg cattgaagac tgcgtgaggg caggttgcta tgccgcaaac 240
gttatcatcc agcggccggg ctgtacttac ccggagaagc ctgacttcaa ctagtgcaaa 300
actgaggcac gtcattgagag ggactgttat aggcacactt aattgttaac cagtgcgtgg 360
ttcgggtgtct acacaccctg tattcttccg aggccttctct tctgat 406

<210> 30992
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A7

<400> 30992

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gaaaagggag gaacaacatg cacgtctact aaagctatth gaagaggatg atgacattga 180
ggttgagctt ggtcttagag actgataatc ttcaatgtac agcaagagta tctcggctga 240
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ttaaacttgg tagaccccca caagaa 326

<210> 30993
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G9

<400> 30993

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catcttgaat cctcgatctg gacatggtag atctagcaaa gtttttcatg gaaaagtgga 180
acccatattt aaggtatgtc tagctgagta gaagcatgca tcttatctca agattggatc 240
tgtgttgctg ctactactac gaactttggg atgatctatt catgctttcc aatatcatat 300
ttattccggg tgtttcatac aacc 324

<210> 30994
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A7

<400> 30994

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gggcccaaag gaggccttgg gacctaattt tgatgggggtt tgaaattcct gcccctgggtt 120
aatttttaggg cccttaataa tttctaattg attattagga ccttgggtaa ccttgacggg 180
ttcctgtttc ttaattgggtt ttacacttgt ttgac 215

<210> 30995
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A9

<400> 30995

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aagaa 65

<210> 30996
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C4

<400> 30996

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gcatcgacga ggaccgacgg agcgatttgc gaagcatggg acgggagagg aacccgagga 120
aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagacgtc attcgtggcg 180
gcgtcaccac cgtcggtctc gccggtatct tactgttggg cggcaaggag aaattcaatg 240
gttatctgtg ccgagaaggc gagaggctta cgcagcaaga cagagccgct atggaccgac 300
actcaacctt agctactaag gtatctcaag ggagcagtaa cccttcgaaa ttccacaaga 360
ttcctgcgtg cctaccagaa c 381

<210> 30997
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E11

<400> 30997

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 cactggagaa acaaaaatca gcgggctggt aaaactgtta atgagacaat aaaactcctg 120
 ctgctggaca gtaattatga gttagatgta ccttcatcag gggtttattt acctctatga 180
 tattacatag tataccttgt acatcagaat gatacaaaac aataagtccc aaaaaggaag 240
 gtgagttaaa aaacaaaaaa aaaacaaaaa aaaaaaaaaa taaaaaagaa aaaagaaaaa 300
 aaactaataa aaatat 316

<210> 30998
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E2

<400> 30998
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 aaaaaaaaga caaccgattt ggaggatcct catcttacgt ccacgttcat gcaccgtctt 120
 atccctccta tagtgtctcc tatattcaat tcactgtcca gtcc 164

<210> 30999
 <211> 86
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F12

<400> 30999
 cccacgcgtc cgcggacgcg tggggtctgg tttctacctg accgtttcgc tatctgatgc 60
 ggaatcttta atatcataat agaaat 86

<210> 31000
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G12

<400> 31000
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aactattgat tgatgaatta tgtctatgta tgaaattggc ctatacgaat ataagtgtgg 120
 gttaaactgc tgaatatgtg tgtgaatagt gaattgatga gtgatgagtt gtgttaattt 180
 ggtgttatat tgatatgggc tgtgaaacta tgagtataaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaacaaaa aataaaaaaa gataataaaa agctaagata ataaaaaaa aaaaaaaaag 300
 atacaaatgt tatactacat aacatggggg cgctccattt tagagacca agtttgattc 360
 cccatatttg cacaaagtta ctctttcatt tgggaaccca aa 402

<210> 31001
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A1

<400> 31001

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 gcatgtgatt gctgctacaa ttgctcttaa gggacttgga agtctccttt ttattttgac 120
 cagctccctc ggtgcttata tctgctgct gtacctcgct ctgatcagtc ctatcgttca 180
 cgacttctac aactacgaca cggagaagga agaattcgcg cggctgtttg cgaagttcac 240
 ccaggacgtg gcgctagttg gagctctcct cgtcttcctg ggcataaga actccacccc 300
 gaagcggcag ggcaagaaga aggctcacia ggcaagacg aactaattag aagttgctcg 360
 ctcgggctca ggcgggtgct aggagacgaa tagtggccca atgcgaaaca gtcgatg 417

<210> 31002
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A11

<400> 31002

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 ttactggca gcgagtacgc cctcttcacc gagcgtgac attcgctctc caggctcgct 180
 ggcgtcgatg tcacgaccga tgctgacttc cgcgagggtta acctatctgt ctactaatac 240

atgcgac

247

<210> 31003
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A7

<400> 31003

cccacgcgtc cggccacgcg tccgcccacg cgtccgtatc aacgtgccc a ttgtgccgcg 60
ctctaatacac catgcgtgtg aggctctact cctaagtcgg ttggtgtctg gagggatggg 120
accaaacaga aaggtgcaag aacttttggg cgcatggact gcgctacgat cttgagatat 180
ggtccatatg gatgtcat 198

<210> 31004
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C7

<400> 31004

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acgagctgca cacagacttc gttctgaaga atccgttcta tgagatggag atgccgattc 120
ggtgcgagct gtttgaccac aacctggctc aggtgatcca gaaggaccga gttgcgctcc 180
tgggtcggtg aaattggaaa gcttttggtc ctaaccatac catgtatctt gtactttccc 240
ccctttttct acattatgct cggacttact gtgcaattgt ctcggccgaa gacagctggg 300
gaccaacaac tgtttggtcc tgactattag caccgtatctt ggaacagatc taaaaataag 360
aacct 365

<210> 31005
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-002-Q1-K1-D2

<400> 31005

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gggcatcaaa caattctttg ttgctgttga gaaagaggag tggaagtttg atacactttg 180
tgatctttat gataactca ccatcaccca agctgttatt ntctgcaata ctaagagaaa 240
ggtggatttg gctcactgaa aaaatgcgta caaataactt caccgtatca gctatgcacg 300
gtgacatgcc cgaacttgga atggatgccca ttatggttga gttcagggtc tgcggcatct 360
cgtgtgctaa taactacaga 380

<210> 31006

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E7

<400> 31006

cccacgcgtc cggacagata aagaccaggc aaactatatatt gaatgggaga ggataaagcc 60
aatcaacata tgagaggtga ttattttaat ttgcaatttg tctacataat aaattagata 120
cgaaattgtt tgtcaaaaaa aaaataatac aaaat 155

<210> 31007

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G3

<400> 31007

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gggcaaagag atgtcgtggg aaaggaacgt gtcgtcctcc ctagatcttt cactttggcg 120
aattaggagg cacgtgtgat aaataagagt cttgctagtt cgtcgtcgtc catgttgtca 180
tagatcctgt cttgtgtgtt catgttactg tgatgcaggc aattgtgtgt tgtgttcggg 240
cgttatttgc tgtgttgtgc gttgccaatt tgccagcttc agattatgtg tgaataaaaa 300
agag 304

<210> 31008
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-G7

 <400> 31008

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 gtgcacaacg acaaccatcc ctgcaaaatt attaatacac gaacaaatcc gtccaaaatt 120
 gctggcaagt aaatcataaa ttatccaccc aactgggaac aaaacggaga ggctaatacat 180
 tctaactacg gcgctcactg atcactccaa tgacgtagta taacttccaa agttttattg 240
 aatggcccta cagatgtgta tgatcaagca atcttgggct tgggcttaag tttattcaat 300
 tgcgagtttg ggaaaactcc agcaggagcg atcctgggtc caatagagtt gttgggaaaa 360
 acaggggtcc tgaataactg atctgaggtc acaatgacc 399

<210> 31009
 <211> 88
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-002-Q1-K1-H3

 <400> 31009

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 ggagggttca aataacatgg aaaaaaga 88

<210> 31010
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-003-Q1-K1-A12

 <400> 31010

 gagaaatggt aatccgcgtt atcaaagatc agatcaaaac atggatcaag atccaacacg 60
 tccatgtaca aaaactagcc actacacatc acgcgaggtg gctcccgatt attcgacttg 120
 ctgcacggct ccaattcagt tcataccat acacgcatgc atcgtggcgc acgccactca 180

cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240
gccacccagc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg gccgccggcc 300
acgtcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa eggcctcgag 360
cttgaagggc ggggcgtcgg tggcgagcca ctgctcgacg gtgaacagct gctgcccgca 420
ccccttggtc gggcccgtag tggt 444

<210> 31011
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B10

<400> 31011

aatcaatata tataataaac attatcaaat aacaaaacta aaaaaaaaaa aaaaaaaaaa 60
ggaaaaaaaaat aaataacagc gagacaaac 89

<210> 31012
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E9

<400> 31012

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaagaaaaa 60
agagtataat ggttcacaaa ttacgtacac ataaatacaa caaaaataaa tctaataata 120
agaaacctaa aattaaatta at 142

<210> 31013
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F9

<400> 31013

gactgcatag ctatagtttt gtgataccga aatctaattc aatggcactg gccttacaac 60
tacaacactg ggaaagccaa aaccttgccc atctcaatct gattggacta gatccacatt 120

tcgctatctg cagttgtagc aataaggacc aggccgatac gcgattgcca ttagtaacac 180
atgctcaatg tcaaagggga ctggcactgt cctgtacat taacatcaac cgctgtgggt 240
gttacgctca cgctcacctg tacagttgcc attgccatag ccctagctcc tgttcctttc 300
gttccttctt ttctcgtcat gttcaccggc tttgcctttc aa 342

<210> 31014
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G7

<400> 31014

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ggaatataaa atgaaaggaa aaaatagaaa a 91

<210> 31015
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A12

<400> 31015

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gaggggaagt cttactagat tgggaggcaa actcatctaa tcccgtcaa tccacatgta 120
ttgagagcta tacctacaag ctcgcaatgt attccttgat ttctgcttcc cctaactctt 180
aggtgcttaa tgccaaactt tatgaatctc tttaaataga tcctatctag ttcaatacac 240
tctggctcctt tttaaataga cagacatatt tttatatgtc tactttatac aattcaataa 300
ctcatgagaa ctttacia 318

<210> 31016
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A8

<400> 31016

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 cccccggga acccgaaagc cggcgagaag atctttaaga ccaagtgcgc gcagtgccac 120
 acggtcgaca agggcgccgg ccacaagcaa ggtccaaact tgaacggtct ttttgggaga 180
 cagtcgggta ccactgcagg ctactcctac tctgcgggta aaaaaaaca ggctgtagtc 240
 tgggaagaag acactttgta tgagtacctg cttaacccta agaagtacat tcctggaacc 300
 aagatggtct tcctgggct gaagaagccg catgagcgtg ctgatctta 349

<210> 31017
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G7

<400> 31017
 cggacgcgtg ggaaaaaaaa aatgcattga tagaggaatt aaaaagataa aaag 54

<210> 31018
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G8

<400> 31018
 ttttctgctt gcatgcgatg atataacttt tctattgttt aacctaaatt caatttatt 59

<210> 31019
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H2

<400> 31019
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 accaccacca ggccgtcgcc tcgtgccctc aattctcctt tcgaatttag aatccccgtg 120
 ctgagagctg agtgccgcct tggttgctcc gtactggact cgattcctca tcgcagcaga 180
 agcatcccgt ccctccgctt ctcttgctc tgctctggta acacacagac aaataaa 237

<210> 31020
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H8

<400> 31020

ggggttttgt agcattctgc agcttatgaa taatccagta attgtacaat accgacagta 60
aactgacgtc ccattataaa tccttttcagt aatgataaca aaagtttcaa caaatgctcg 120
acacaaagtt ttaacagcaa catattatag cactctgcag ccgggatcca tgtggctaaa 180
catcataaca taaagttctc ggcagtaaga ggcagcagca ataattcctt cacaaacttc 240
taacttcaaa aatataaagt aacacttagg ccagcattcg gccgttcttc aaatcaaata 300
cttattcttc cttctcagcc ttctcgagcc atttgacata cggctccaga gctttcacg 359

<210> 31021
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B7

<400> 31021

tgatcgcca ggatctgcct tccttgggct ggggagtaag aaaagatctg gctatctgct 60
ggtgcatctt gcttaggcag aaggctgatg aaacttattg ctgtgtgcag tatcttgaaa 120
atcatctgga gcttttagat ttcttgttg gttgctacaa gaacttggat attgcattga 180
actgtggaaa tatgttaaga gaatgcataa agtaccctac acttgcaaaa tacatattgg 240
aatctggtag ctttgagctg ttctttgagt atgttgagct tccaaacttt gatattgctt 300
cagatgctct gaacaccttc aaggatctgc ttaccaagca cgaagttgta gtcgcagagt 360
tcttgagttc ccactacgag cagttttttg aactctactc 400

<210> 31022
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-F12

<400> 31022

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aaggatagac atgtttcccg gactctctcc acaaacagga tccacaagtg ctggctccac 120

acaagcaacc atagtagaaa gacattcaaa tgctcgggggt accttggggct catggagggtc 180

tgaatgtatc atccaaaaga ttgatgatac ttgttcatgg cttcgaaggt tactaagaag 240

gcctgaaatt gatgacactg aagcatgcct taacatggag ctaattgagt caacagccac 300

agaaaaatat gttttgcctt ctcttcaaa acctcctcca agttcagtag tggaggacat 360

caatnttgta acatccttca cacttctata aacagtaata ttatctntaa ttgttgagaa 420

ctgctntgca ctgttcctt 439

<210> 31023

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F8

<400> 31023

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actagttttt ctacttgga tggaagtacc atccagacta tgaagtcttc tttgcttgct 120

aaataatact gtcaaagaac aagtcgacta catttttgca tcatatttct gtttgtattt 180

gtggatatga aatgccatca acttgaagat cagcattggt actattttgg ttaattaaaa 240

aaaaaataat ataataaatt aaataaatat taataaaata tatattaata ttattatttt 300

ataaa 305

<210> 31024

<211> 144

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G2

<400> 31024

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gggcgtactt tctaaaagg ccaagcttac aaacacattc atgcaaaatt ataaacattt 120
ctatagagtc aaataaattc aatt 144

<210> 31025
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G8

<400> 31025

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agggcataaa attaccacaa cagccactca gagcacacac attgagtggg ccaaattatt 120
ccagctaggg aaacttgcag agtaactgat acgactacag caaagagcag cagggttaagc 180
tagattgtta ggaaagagca cctgcacctg gctgtctcca ttagtggata tacgagacct 240
ggtactgaac tgggtagcca ttaccgtaat aagggtccatg ggcaggttgc atcgtgtaag 300
acgctgaggt catcatggga agaagatgaa cctcagcgcc atacacaaac tgcctctcgc 360
aaggattgaa tgga 374

<210> 31026
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B11

<400> 31026

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agcgttgacg acagatgagg ggttgctgca gacattgcac attcaggctt aagcaccagc 120
tatagtctga ggtgtcggaa tcacgactga gcagattcaa cagcatctgg atgagaat 178

<210> 31027
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-006-Q1-K1-B5

<400> 31027

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cgtccacgcg agaagcgaga gcatggacac ccaggtgaag cttgctgttg tggatgaatgt 120
gatgggcagg accgggtcca ggggtcaggt gaccaggtc atatntaggg ttcttggatg 180
accagaaccg gctcatcatg aggaatgtca aggggcccgt ccgcgagggg gacatcctca 240
ccctgctcga gtccgagagg gaggccagga ggctgcgtg aagccctagc gttcttgggtg 300
ggctcttgtt tggcttttgg tgtcttcgaa tttgtgctat gggtgaactt ttgtgaccct 360
gtcttgagag tagtaagcct 380

<210> 31028
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C2

<400> 31028

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tgtaccaaac atgtattgca aatttggat ttttgaagc tataataatg ccagcacggc 120
aatatcccca catgataacc ccgaaatttg tatcgttcaa agttcaaacc atggatcct 180
aattcaaaaa ttttgccctt t 201

<210> 31029
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D10

<400> 31029

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<210> 31030
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D8

<400> 31030

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 57

<210> 31031
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E5

<400> 31031

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caggaaggct gttgtcatcc acgtcccata ccgcctgcgc aaggccttca ggaagatcca 120
tgttagactc gtcagggagc tggagaagaa attcagcggc aaggatgttg gtgattgttg 180
ctacaaggag gattgtgagg ccaccaaga agggttcagc tgttctgcgc cctctcacca 240
ggactctgac tgctgttcac gatggcatct tggaggatgt tgtctacca gctgagattg 300
tggggaagcg tgtcagatac cggctggatg gttccaagat tatcaagatt ttcttgacc 360
caaaggggag gaacaacact gaatacaagc t 391

<210> 31032
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B1

<400> 31032

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaat aaaaaagggc ggccaataa 60
aagggtacca ggttacttac acatgtatgc gattaaatat tctcttatat agagatacca 120
aaattcaatt cattggctct gtaattacaa cgtattgact gggaaaacct tttctttac 179

<210> 31033
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B2

<400> 31033

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gtgtgaggct tgggtcccagc acacctggtg attatgtttg cgccccgggtc ttggtgccct 120
gaaaccctgg tgtgactgct ttgagctaaa tattcttgat tctatgatat tcttttgatg 180
tcttgatat atttttcata tgtttttctt tatattctgg ttttaatttt atatgttttt 240
ttcttttt 248

<210> 31034
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B3

<400> 31034

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gatcgatacg atggccgact tctccgacct ccacaccgcc gacggcctca agtccctcga 120
ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg atgacattaa 180
ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaataccg cccgctggta 240
cgagaccgtc tctgcccgtg tagcctcaag attccctggt aaggctgttg gtgtaaatct 300
gcctgcggga tcagctcctg c 321

<210> 31035
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B5

<400> 31035

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccta tattgtgtgc ctccacatat 60
tggggagctt gaagcatcga caagttacta gtcattgctt acttatataa gaacataagt 120
agtatttgct attgtcaagt gtgccttgct tgatgcaagt tgtgttttcg tatcattatt 180
attatgcacg gccatcgta gtgtatggct tgtatgggtt attgccaact taataaaagc 240
acactctgtt tgcctaaaaa aaaaatataa taattattat attaaatat 289

<210> 31036
<211> 96

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-C10

 <400> 31036

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 atggaaaaaaaa ggaaaaaaaa tataaaaaat aataat 96

<210> 31037
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-E12

 <400> 31037

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 ctctgtacgt gttcacgctg acgctgccgt ccatggcggc catgttctgt gtgttcggcg 180
 acgagctttt gacctatttg tacgcttttt cgcagtttct gatatttcttg ttgcttgtct 240
 ctgttgtttt aatattgcgt ttcttttttt ttttttttta gttatttttt ttttattttt 300
 ttttttttga ttttattttt tgtttttttt aatttattta ttttattggt attttatttt 360
 tatttttttt attttttttt tttttgtttt ttgtttttat atattttttt atttgtttat 420
 ttattttttt ttgttttttc tttttttttt tttgtttttg ttt 463

<210> 31038
 <211> 73
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-007-Q1-K1-F3

 <400> 31038

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 aaggctaaat taa 73

<210> 31039
 <211> 188

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-A6
 <400> 31039
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 caacaaggag ccggaacat gttttctgta tcgttttagg tctttgttcg gttaatccta 120
 ttacctatga attggatgag attgaaaaa ttaagaaata actttgactt gtttgaatt 180
 taaaaata 188

<210> 31040
 <211> 177
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-B6
 <400> 31040
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 gtaccagctg ttagttcatg gtttcaagct tagccccct tcaatttggt cgatgatgta 120
 ttacttcaca ataaacatta ttacttagat gtatgagggtg agcacacttg gtcttta 177

<210> 31041
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-008-Q1-K1-C11
 <400> 31041
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 ccgggtcacg tccgttattg cagagtgcag acaacgtagc atagactaac aggacaacta 180
 actgcacacc gaccgatgcg gcagccgcag cgcgtctcct ccttcctccc gtgcataggg 240
 cacggacgga ttcaggggct cagttgcagg gctccctcgc gaacccgacg cgcgagccgg 300
 cgacgtcgac gactaccgc acgttctgct gcttaagggt ggccaccacg ttcactactg 360
 ctttcacttt c 371

<210> 31042
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-D6

 <400> 31042

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 ttgacaggat cttatattaga cgctgctatt aattatattt atacgccttg tcgacgtcgt 180
 cctttcgact cttgtgcgcc atcgccgggc cgggcgggtcc ggctcagttg cagttgcatc 240
 tggagc 246

<210> 31043
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-E10

 <400> 31043

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 gtgtcttcca caggaattac taaggatact actggccata gtgcagatgg taaagctctc 180
 acttcagaac cgcatatagg ggaaacacat gtcaactcag cttcagaatc cataccaaat 240
 gacgcatctc cccaaccca gagcaaaatg aatgggtcga ccaagaaatc attagtcaat 300
 ggtgttttgg atcaacaaaa tgccaactca tggctagaat cctcgggaaa tgattatcct 360
 agctacacta actcgagcag tgctttgcca cccgcgag 398

<210> 31044
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-008-Q1-K1-G5

 <400> 31044

cggacgcgtg ggcggacgcg tgggcttacc ataacttttg ggcaaagtaa gcgctagcat 60
 ctgggttgta ctagtatggt gcacagatct gaataatgtg cataagattc ttcaaaaaaa 120
 aaacacaaaa aaaacaaaaa taaaaactat taag 154

<210> 31045
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H11

<400> 31045

tggatgggta caacttcacg cagtgtcacg gaaacgggac caaatgattg aaatggttat 60
 actagtaggg tgttactgta gttttcccag ttgaatttaa tttgcaactg agtttgtact 120
 caaaaaaaaa aaaaaaata taaaaaaga aaataaaaaa aataaata 168

<210> 31046
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H3

<400> 31046

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 gctgacgttc gtcgattgaa ggggtggagg tgtttttttc cagcaactgg attgtatatg 120
 gatggattgg ggcctgagtt cgattctgca ttctgcttga gcaataataa gtctgagcta 180
 ttctgtcaa aaaatataat agtttcta taaat 215

<210> 31047
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A6

<400> 31047

gaagattctc aaccaatgca accaagcaga gtggcggcca ttcttcaaaa aaaaaagaaa 60
 agaa 64

<210> 31048
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-B12

 <400> 31048

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 tccggcatgg cttccaagca gatcggagtc ttgacctgct tcattgccat caccgctctc 120
 gccttccgtc cctgcgcatc cgccgtgcc atggactgtg ggcgtgttcc actatatact 180
 catccaatt 189

<210> 31049
 <211> 125
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-009-Q1-K1-C3

 <400> 31049

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 gaaaaaataa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaataaaa aaaataaatg 120
 aaaaaa 125

<210> 31050
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-009-Q1-K1-C5

 <400> 31050

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 agagcaagat gctttacgca agcttaaacc agaaattcaa gaatggcctt aaatgcattc 120
 aaggtgaact tcaagccaca aattccaatg aaattaacct ttattagatc aaagattcgg 180
 caccctatgc gcaacggcat ttcgagggtc atgatcacac cttattgaca ttctacata 240

ttgtggatat gtatgcgcct ttatacactg ggctctgaaa aactgtttttt gggagatgtg 300
 gggttgttgc tctgtgaaaa gatactcata ggtt 334

<210> 31051
 <211> 131
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C6

<400> 31051

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 ggattctgat gcttcactcg aggtcaatct cattaattca ttagtggcct tactggaatt 120
 catgatatac t 131

<210> 31052
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C8

<400> 31052

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 gttaggggttt tacatgcagc taccttgtaa ttcggttggc ttccagaaaa aaaaatgtga 180
 gcctggacac gtcaagtgc cacctcagtt ttgttgtaaa tttgttacta gtttgatagg 240
 attattagta tgtacttattc aggaaaagaa ttctcagtat gtgttttggc tgcccattca 300
 atgataggtc agtgattaac accgaagcat tgtgctcttg tgagatgctg tgttggtctt 360
 aatatattga cggtactgta ccatggttta aaaaaaaaaat aaaa 404

<210> 31053
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E1

<400> 31053

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<210> 31054
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E3

<400> 31054

accacgcgtc cgatttatta gcacccctcga ttcctagaaa aaaaaaaaaa aaaaaaaaaa 60

gaaagaaaaa 70

<210> 31055
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E4

<400> 31055

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caggcagtgt atctctgaga agttattctg tagctctttt tattcttata tgatcttgtc 120

ttttttattt ttttttttta ttttctttaa aatatctttt tttgtttctt attcttgctt 180

ttatttttta tgttttctta ttatttactg tttattattt tttgatgttt tatttatatt 240

ttctattaat tatttttttt ttttttttat tgtcttcttt tatttttttt ttcttttatt 300

tttttttttt tgtttttggt atttattggt tttctatttt ttttcttttt tttttttttt 360

tttttttttat ttatt 375

<210> 31056
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H6

<400> 31056

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ggggtagcca atactagcgg gaccgatctt acttacactt gcatgcaaca ttataagctg 120

ttctctcttg taacgtatatt tcacttctct t

151

<210> 31057

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B8

<400> 31057

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taaaatgccg ggcttacttc ctttgcgtca cgnaatcaag ctgttactta atgctcaaca 120
ctgaagatgg ttactcaant taggganagc tttccgaagc caatactctg ggctgtgatt 180
ctgctctttg tgatgggttt catagcaggt ggtttcatte tgggtgctgt tcacaatgca 240
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gcttgctggg gtagtagagg tgcagttggg tttgttaatc gctatcctga tgctgatctc 360
agaactgcta aagatggaca atatgtaaag gttacagggg ttgttacctg tggaaatttc 420
ccccttgaat cctcgttcca aagggtcccg aaatgtgtat acacttctac tag 473

<210> 31058

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C8

<400> 31058

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cggcgatcag gacgttgccg tatttggcgt gtactcgtat gcattgcatt aactgtagct 120
gttcgtagga ctacctattg tgacttgctg tatcgtaatt aatatatata tatttggatg 180
tctatgtaaa taaaataaat aaataaaaaa taataaaaaa aaataaaaaat aaaataaaaa 240
taaaaaagaa aaataaaata 260

<210> 31059

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E4

<400> 31059

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aaaagcaaaa aaaaaaa 77

<210> 31060

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F6

<400> 31060

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aggggactaa aaaaaaaaaa taaacaaaaa aaataaaatt caaaata 107

<210> 31061

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-C5

<400> 31061

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cggagtaatt gagaactgcg aa 82

<210> 31062

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D5

<400> 31062

tccacgcgtc cgtccacgcg tccgcacacg ctttcgtgac tatggttatc caacaagagt 60

tcggctatat ttatggaaga gctcatttcc cgtttcatgg acgagtaaca gctgtcatgg 120

agacagggtac aagttcctat ttatacatat ttccaatttg ggctgtcatg atacactact 180

accaactatt caattggac 199

<210> 31063
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F2

<400> 31063

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cagggaccgt tgatcataag ctagcatctt ctgtgatgct caaggcatg a 111

<210> 31064
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H7

<400> 31064

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tagatgtaac gcgggatatg cattcatcaa tatgacagat cactgcaaa tagttccatt 120
ttacatgaca ttcatcggca agaaatggga gatgttcaat agcgataaag cggcatcact 180
tgcgtacgcc agaatccagt gaaggaacgc tatgagtgc cattctcaga attcta 236

<210> 31065
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-012-Q1-K1-F9

<400> 31065

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caagaagaag ataagaaacc cggcgatcag tccggcggtc acatcaacct caaagtcaaa 120
ggccaggacg ggaatgaagt tttctttaag atcaaaagaa gcacacaatt gaagaagctc 180
atgaatgcat attgctaccg acaatctgtg gatttcaact cgattgcctt cttgttcgat 240
ggtcgccgtc tgcgaggtga gcaaactccg gactagcttg agatggagga tggatgatgag 300
atcgatgcta tgc 313

<210> 31066
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A11

 <400> 31066

 aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

<210> 31067
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-A3

 <400> 31067

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 ttagattgca ctacgcttat attttagtat tgaactcggt gcattttgat acctgtaccc 120
 gtagtttcgc aaatgtccca tggtatggtg tggatggtt aatttgaaga atccttatgt 180
 actgaatctc tgcaaaaagc tatgttgtgg acagaagtgt aacgtgccg atttcttgca 240
 aaaaaaata tattatatgt ttactttaa ttgtattat aat 283

<210> 31068
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D1

 <400> 31068

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 ggtgccgaga tcttgctcga tctcttcggc ggcgaagagc gcccaaccaga tccgtcctgt 120
 ttgttggtgt ggcgcctgag caggagtagg tcgcggccac agaaccctag gagcaaattc 180
 catggcaccg agtgacacaa ttgat 205

<210> 31069
 <211> 56

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-D9

 <400> 31069

 gacgcgctct gtatcgggttc attaagcgcg gttgtagtgg tggtttctcg catttt 56

 <210> 31070
 <211> 69
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E3

 <400> 31070

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 ggggtacgg 69

 <210> 31071
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-E8

 <400> 31071

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 <210> 31072
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-013-Q1-K1-F1

 <400> 31072

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 aaaaggaaaa aataaaaaaa aaaaaaagat aaaa 94

 <210> 31073
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F11

<400> 31073

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tttttttttt tttttttttt tttttttttt tttctttttt taattttttt tttttttttt 180
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ttttttttct ttattttttt tttttttttt ttcttttttt tttttttttt tttttttttt 300
tttttttttt ttttattttt tttttttttt tttttttttt ttttattttt tttttttttt 360
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<210> 31074

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G4

<400> 31074

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tccacgcctc gaaggagtag actctggcca gcggtgataa tcgtgattcc atatattgta 120
gaactacaat ccctgctagt aatccatttg tgctgtttat gtatcgaagg cagcaaagat 180
gtgtgaagcg gcaatgggat gcttgctgta aggtaatatg tttggcttgc taggcatgct 240
acacgctatt tggatgtagc aacgttatca ccagctgtat acgcttttta atcgacaaca 300
tttgaataat atgtacataa aataaaaataa tcaattaaat aaag 344

<210> 31075

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H3

<400> 31075

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cacccaaatc ggaaagcctg ctgttcacat ggctagcgtt gacttgaaag gaaaagcata 120

cgatgtattg aggcagaatt cttccagggt tttgttggaa gatgtctaca ggaaccagg 180
 tccgctccag tttgaaggac cagggtgccga ttcaaagcct atctcactgt gcgtcgagga 240
 tcaagactac atgggcagga taaagaaatt gcaggaatac ctggagaagg tgaagagcat 300
 tgtgaaacct ggggtgctgc aagatgtcct taaagcggcg ctgagcgcca tgttttctgt 360
 gacggagaca cttgacaata agacctcatc gttcacccgc cagactgcac tgtgacttcg 420
 ttggtgccct tttgtggtgc ggatc 445

<210> 31076
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-A10
 <400> 31076

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 acatgagccg aatagaggct acgtactgtt attgtatcag tactagtacc ctatatatat 120
 gggcgcaacta cagttctgtg atgtaatgga ttctgctagt atttgactct tgtgcttttg 180
 tacagaaaaa aataaaaaata aaaattaaga gaaaaaatat aat 223

<210> 31077
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-B7
 <400> 31077

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 aaggatgaaca tattttactc ttttgggctc cttgtaattt cattagtaaa atctctactt 120
 aattattaat gctgcatagt taaaaattta taaaa 155

<210> 31078
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-014-Q1-K1-C9

<400> 31078

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tcgggctgta cggcagcccc gagaccttcg ccaagaaccg ctagctggag gtgatccact 180

cccgtctgggc catgcttggc gcgctcggct tcgtttttcc cttgct 226

<210> 31079

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E11

<400> 31079

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gtcaatgttg gagatggctc tgagacctca cctgggcagc ataatggctc ggtcactctc 120

tcttatataa tggacttttt tggatcaatg cttccaggct aaaatgttct atgaaattct 180

tcatgtctgc ttccactaat tgcttccatt gagcatggtg aggttagatt ttttgcacat 240

ccataattgt ttgagcctg ttactttgct ttctcttttg attgtctttg tcagtctttt 300

gttttttttt atcttccaag tggaaacact ttttctaatt gttctatttt actttatttt 360

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<210> 31080

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E7

<400> 31080

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gggtaatttt aaaaattatt caggatgaaa tattaatata atttaacatt aaaacatatt 120

atataaatta ctataaatgt gcaacctctt ttgaggttcc tggattatat a 171

<210> 31081

<211> 447

<212> DNA
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 <223> Clone ID: LIB3067-014-Q1-K1-G12

 <400> 31081

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 tccagaaaga tttttagtaa atatttttag gctggctgct gtgagttgcg gataggttga 360
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 cctgattaga aactttgggt acatttt 447

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 <212> DNA
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 <223> Clone ID: LIB3067-016-Q1-K1-A10

 <400> 31082

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<210> 31083
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-016-Q1-K1-A2

 <400> 31083

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 ttatattagt cgttaaaaa aaaaaaaaaa taaaataatt aaaattaaaa aatatatagg 120
 ttatttttat 130

<210> 31084
 <211> 87

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C3

<400> 31084

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<210> 31085
 <211> 155
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C5

<400> 31085

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atgggtactat ggtgaaacat tgtgtcagtt tttgtgggtct ctgtatggat tttgaagtat 120

gcctaaagaa gtttttgggtg cttaaaaaat aatat 155

<210> 31086
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D1

<400> 31086

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<210> 31087
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F5

<400> 31087

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tgtacatata tcatgtttat tggctgagcg aatttcattt atttgagggtt agtataacct 180

atattagatc tgcctagtga tcatatctca tctatagggg cgttcggttt atcttttata 240
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 atttccttaa tgttttgatt tt 442

<210> 31088
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G5

<400> 31088

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 gggagaccta tcttttcttc gcagcaggca tcagatctca taggggggtc ttcagtttcc 180
 aactcaagga aagatgagtt cta 203

<210> 31089
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G7

<400> 31089

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 taaaggtaaa act 73

<210> 31090
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H1

<400> 31090

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caaaaaaaaaa cgaaaataaa taaaaaa

87

<210> 31091
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H6

<400> 31091

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gaatttgga ccggttctgt atatatttta aag 93

<210> 31092
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A1

<400> 31092

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gcagagtatg cgccgtcact gtgtcgatct gcagtttggc cgtttaaaag tgattgtagt 180

gtgtactatg ttcagctcga tgatctcgga gtcgctatat acgctcgctc ccgtgctgga 240

cgggttatcg atctgatgaa caagaatata ataatatgta tggataactg tgactggggt 300

ccgcggaagt ctggctttta ttaccgtgtg attgggtacc tgcacaaaaa taaaatattt 360

taa 363

<210> 31093
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A12

<400> 31093

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tgacttggtt ttgatttatt tttattct 88

<210> 31094
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-A7

 <400> 31094

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 aatgctatcc atgcgtcgca ctccaaaaaa aaataatt 158

<210> 31095
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-B12

 <400> 31095

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 cgctgctcct ggcggtggct cttccctggg ctacctgttc ggtggcaact gatgcccggtg 120
 ctggtgcgct caccaaagtt atcctcccct gcctgctgcg tgctatgtct gaatcgtgaa 180
 caaccgttgt tgtcatttca tgtgtgtacc ccgtgcaatg ctttgtgcgc atggttgatt 240
 tctctgtggc aaacttcccg tctgcatgg gggtgtaagc tgtctctaaa tttaacggca 300
 agtcgtatgc ctgaaccttc atcttaagtt gttgtcgtat cccttcgtct tgtttcgggt 360
 gcaccccggtg atggtatgga ttgggtgctg acc 393

<210> 31096
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-017-Q1-K1-B4

 <400> 31096

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cttcggagggc taggctggat gcctcttctc cttgctgtcg tggatgcctg tttgttggtta 180
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 aagttgtttc gaatgtaatc caatcttata gttcgataat tgaaaaaaaa aaataatatt 300
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<210> 31097
 <211> 95
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-E11
 <400> 31097

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 tctcattggt tctcaatccc gagcccccca taaaa 95

<210> 31098
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-E3
 <400> 31098

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 cgttccagga gttcaccgac ctcttggtta agccgacaaa gggctctctg atcgaggctc 120
 ccaccgagac agtgaagct tgaacgtctt agtttactgt tccaagtgtc gcgaaaagag 180
 ttttctgtac tagctacata ttttaaagt tattttgaat tatgatgaga aaccaaggta 240
 tgcacccaag ataattgatg tcctgctggt ttcgtatgtg ggtatcgaac cccaaagaaa 300
 tagattcaaa aatg 314

<210> 31099
 <211> 63
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-017-Q1-K1-H2
 <400> 31099

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aga 63

<210> 31100
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B12

<400> 31100

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tgggttcttt tcttacgctg cggcacctaa taaatgactt gccttctatg ttttcgagaa 120
acttacatta ttctttttta tataacaata atactgtcta ttcagt 166

<210> 31101
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C7

<400> 31101

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tggactcggc ctactactgt ggatttgtat gccattatag acttgggtgct gtgaaagact 180
gcttgatgat ttgcgggttt gttgctgtgt aaaaaaaggt cccatggctc ccagaagacc 240
atgaagggtc ggatctatca tgtaattcct tggtatctgc caattatgta tggactaaaa 300
aaaataatat aaa 313

<210> 31102
<211> 514
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-018-Q1-K1-E10

<400> 31102

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 tctctcgatc tccatccggc atccagctcg tcccgcgaact ccgcaanagc tagcttctcc 180
 ggacttagtc tagggctctc gatctacgct cgcttagatc taagtcctct actcccggca 240
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 cgccaagtat ggatcctcac tcgaggaccg atgactgagt tcgaagagct tcgagaatcg 360
 accatagaat gggatgacct aggaagaagg catacgaagc cgtccagcat gtgggaggat 420
 gatntgggat gaccgatgac gtgaatcgat gaatttctct ttgcatgctc aagggaagag 480
 cttggacgga agcaatggcc cagaagagct gaag 514

<210> 31103

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E12

<400> 31103

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 aatacaggat gcagaagcaa actagaattt tgacaacatt cttttaaata ttttagaggt 180
 atccgtgcct atgcatggag gctattcaaa ttttttgcca gaatcaagtg tatgcaataa 240
 tgctctgcca gattattaag cataataggc taatagcacc tgaggaacag tgttttttga 300
 cttgggaact tggttgtgtt actgtgtaag gttttgctcc cctaaaaaaaa aaaaaaaaaa 360
 taaaaaaaaa agaacactaa ataaa 385

<210> 31104

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E9

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ggcagcggca ggcgtctcata attcagcttg ctgtggctac tgagcacttg tcaccgcgtg 120
 atagtggcgt tctcgcgcac gtaattatca tcgtttcatt ctttgccagc cactctcttc 180
 ttgtgcttgt tgagctatcg cacttgctgt ggctggaca catgggttct aactgctaaa 240
 ccagatcaga taattgctgt attgtgggaa ctctacccat ggtaaggcat gcataatggc 300
 tgtgcaaagc acctttttac actaaaaaca cact 334

<210> 31105
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G5

<400> 31105

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaat 60
 aaagaaaaac aaaaacaaaa ataaa 85

<210> 31106
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G7

<400> 31106

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 109

<210> 31107
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H9

<400> 31107

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 tggggaagcc atacaggggtg ttctaagtct gctcttttgt gaagtctgct aggttctggc 120
 accgaagttt tatcgaatta aactcttggt aagagtatgt ttttggacga tcctatattt 180

cgctcctggcg ctactatggt tcagaatggg ggtactacta taagtattgc ttgaaaggat 240
 caatataatt tgcgtgtcat acccacataa taaaaaat 277

<210> 31108
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A12

<400> 31108

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 aagaaaaaaaa agaaaaaaaa aaagaaaaaaaa aaaaaaaaaag aaaaaaaaaa aaaaggaaaa 120
 aaaaaaaaaa gaaggaaaaa gggatgagga taagaaaaga tgagagcgta cacggagagg 180
 cgagtgcagg gagagaggag taagatagag acgcctaaag ataaggaagg ggccccgaac 240
 gaaaaacgtc agggccggaa taaacatggg gatgccaggg aaaaacgggg ggac 294

<210> 31109
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A6

<400> 31109

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 atgatcatca agaggagcac aatgagcaac tgtctgggtgc cgacgtcagt tcctgttctt 180
 gatggcgctc ttgaccatgt tcccgggcat ggaggacgat ggcgtgacgg ccttccggat 240
 cttgaagagg ttccacgccg tccccacggc gtggccggcc gtcgcgaacg cgtcttgggt 300
 tgcctctcct gcgttctcgc cgtacctcct ggacactgca ccagcgacga cattcgaagt 360
 tgcagcgagt gacttct 377

<210> 31110
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B2

<400> 31110

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ttcgggtgcgc cgatggggca ggcgttccgc aagctgttcg atgccttctt cggcaccagc 180
gagatgaggg ttgtgatgct tgggtctggat gccgcggta aaaccacat attgtacaag 240
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caatacaaga atgtgatgtt tactgtgtgg gatgttgggt gccaaagaaa gttgaggccc 360
ttgtggaagc actacttcaa caatactgat ggcctgatct acgtagtga ttcgttggat 420
cgggagagaa ttgga 435

<210> 31111

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B6

<400> 31111

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tctcgttgga atggtcttcc cctccttcgg tcagaagaaa ccctccctgg ttgtactgta 180
ctaggcaatg cgcacctgc tagatgcct ccgctgaaat ggaaagcgta tgtgtgatgg 240
tgacatgaag ttcacttggt taattattac catttcagta aatccatgct tcttgcaaaa 300
aaaaaataca aaaggaacaa agaaaaaata tactagcaaa gcaacacat 349

<210> 31112

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C1

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aagcagaagg attagtcccc aggtatcggc tggcaattat gaagttggac aggtttcata 120
 caaatacaac ttgctcaaat ccagaggccc caggagaatg tattgcactc tcgaatgccc 180
 ttcagcccaa gagacttggg aaaactcact caagacaaag ttcaagcgcc ccctgggccc 240
 cacaacttta cgaaataaag caccctcgctg gcatgagcac ctgcaatgct ggtgcttaaa 300
 cttccatggg cgggtaacag ttgcatcaat caagaatttc cagcttgtgg ctgctgccga 360
 cccagtgag cctactacca acgtggatga 390

<210> 31113
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C5

<400> 31113
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 tgatcgattc gaagaatatt ttgaacatgc tgccacctaa tcaaaaaatt tcatgtttaa 180
 cttaaaaaaa aaaaaaaca aaacaaagac aaaaaaaaag aacaaaactg aaaaaaaaaa 240
 aattacaaaa aaaaaaaca aagaatagat aagaa 275

<210> 31114
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E4

<400> 31114
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 atccgagcct ggactggcct gttagggaaa tctttgcctg agatttcctt gttcggtaaa 180
 atctcaatgc tgttggtgag tccttgata actgaacctt ccctagatct tgttgcaagc 240
 gtggatgcta ttgcaaagtt ttgggtttta caccatgaga tgtgttttaa aaaaaaaaaa 300
 aa 302

<210> 31115
 <211> 144
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-F10

 <400> 31115

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 atgcacttgc cagatcacgt acgcccgtc ctttcgattt cttcccatcc attgtcacac 120
 tttcgccggt gtttcccgtc aagc 144

<210> 31116
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-019-Q1-K1-F11

 <400> 31116

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 cctgggggtcg ccgccggctc atgctctgtc gagctcacta gccgggggttc aaggcgcccc 180
 gaatcgactg ggcgtatcga agccgtcgtg gatcgttcgc actgagtcaa acgtgaggat 240
 ggagagagca aaacgacctg atcctacttg caccatctgc ataggcacag ggagaataga 300
 ctgccgcaac tgttttggtc gacgtagaac aaaccatgcc gatgtggcca tgctttcgaa 360
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 gtgccatgga actggtgagt atcg 444

<210> 31117
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-019-Q1-K1-F2

 <400> 31117

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gtgctgcggtt ccgctagccc atgtctactc tgtactatct cataaaaaaa aatagatcca 120
gctgagacgt tgttccctcc ctctttccct gtaccgtgtt tcatgggtgac ttgtgacaat 180
ggatgggtttc tccttgtgcg tcgccccaaaa aaaaagaaaa acaaagatgc aatgatacac 240
aaggaaagcc taagagaagc gagcgaaggt ggaagcaaaa cgcgaa 286

<210> 31118
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G10

<400> 31118

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agccaactaa ccattgaaga gtatcagagg agttggggagc agaacgagga acttgggtctg 180
aatgacatgg atacgtgctc tgcagactcg gcttacaaca cgaccaacac ataattatatt 240
tagttttgat gtgccgaatg tatttgttac gctatcagtt tactttgatg aactttcagt 300
gtgtatacta atatcaacaa cttatatattc ctctgacgat aaacaaaaga tg 352

<210> 31119
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G6

<400> 31119

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cctccctgtg tgtttgtggt tagttccagt cgtttgtgag gaagtcagtt atgtttgagt 180
gagagggggtg cttcgctctt cggttaactc tgtacttgtc atgaggagag ttttcataacc 240
cggagtgtag gaactctgta ctgtactcgg atccttcctt tttcataaaa aaaaaatata 300
agaaaaataa aatta 315

<210> 31120
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H10

<400> 31120

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ccgactgcgt cggcggcggc ggcgatcatg gccgctcaca gggagaacta ctcggccgtg 120
gctgtcgccc cagcacacgg cgctgcgggt tgggggtctc cttctccttc ttgcttatcc 180
ggatgcccga acttgctcgc gttctcctcg ggagacctgt ggtgcgccgc tatcgtgtaa 240
ccttggtggag ctacgcgcca acgtggactc gctgcagaag ctgctcgggc ggaaagccgt 300
cttcgtagac gatgacatgt tcttcaagga ctacctggtc gtcgaccagg cccggaccat 360
taacgttctt gaccagaggg tgcagtctct ggaacgtgaa ctcgatgct 409
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<210> 31121
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H4

<400> 31121

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gtaacttgta accattttgt aataaagaat ttacgctgca aaaaaaaaaac taacccaaag 120
caactaaca aaaactat 138
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<210> 31122
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H6

<400> 31122

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ttgtaataca gtgaagcagc caacaaagaa gatacaaaag agaccagagt agcggcaaca 120
ttaagtattc atcgttggct gcttactgt attacaagaa attgctagac ttggattatt 180
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tcagttgttt tgaatcatgt actggttgca ccaaaaaaaaa aagaagagaa taagaccgag 240
ggaacacaaa t 251

<210> 31123
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H9

<400> 31123

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ccctaattcg atatgctccc ggtatctttt tgaagttttt aaataacttg aaaaccttgg 120
gccccacatg ctacgatagg ttgttcccat tcaactgatca ggggacctgc cttacaaaga 180
tttgccctgtt tctgggttaac aaagccatcc ccaaagctta tcagggatta caaacttgcc 240
ctttgtagtc gcaccatata gctcaatgct caactttttac tttgacattt ccatttggca 300
aaattccctg g 311

<210> 31124
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C12

<400> 31124

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gacagcccca acaccggtgg catccacatt ggcgtctaata tcggcatcac aatcaccaac 120
accatcattg gcatcgggtga cgactgcata tacatctgcc tctgcacctg caaggtgaac 180
atcacctgta tgacctgcgg ccttagctac ggcattagca tcggcatcct aatgcggtac 240
atggaccaga acgacgtcac ggacatcaac gtcaacgatt gcactcttga taagactatg 300
ttcaacatga tgtgtcacgc tgctcaactc cttgatcaac tacgccatta gcctgggtctg 360
tactgt 366

<210> 31125
<211> 84

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-A10
 <400> 31125
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacata 60
 agtgggcgga caaaaaaat agat 84

<210> 31126
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-A12
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 aaacctgaag tgtagtcgat atacatgttt tcgtcgggtga aaccactta cttttttagtag 180
 gccattgagg tgcaataatt tgatacccat gtatgttaat ctgctaacc acatggaatg 240
 caatttcaca agttaaattt gtcgcttgtc atattttgta ggcttcaatg ttaaacattg 300
 tcacagggtc tcatatatgg gtggaagata aagatttgtc cagggttgat ggtgaggtat 360
 ttcgaattga tggccaaaac gcccatgttc gcacaaccaa ggggaa 406

<210> 31127
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-022-Q1-K1-B3
 <400> 31127
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 cacatgatgg aatggtcgtg aacattctct taacatgata agaaatgcac ataaaataca 120
 ggctcatgta ataggccatc aagtgagaaa gaaatacaga acaattgcta gcac 174

<210> 31128
 <211> 317

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C12

 <400> 31128

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 tgactgactc gaacaaaaca caaaaaacga cactgctaca atattatata ctagagctta 180
 ttaattagct agagataaag agtccttccg aggaccccat cacgccctgc agcgtcatcg 240
 ccgccgtcgt ctcaattgca ggtgcagggg tcgcaggtgc agttggcgcc gcacttgcac 300
 ccgccgttct cagctcc 317

<210> 31129
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C7

 <400> 31129

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaa 55

<210> 31130
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-022-Q1-K1-C8

 <400> 31130

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 tttttttttt tttggttatt ttttttttaa aattttttat tattttgttg ttatttatat 180
 atttagggag atttttaaaa aattaaaatt ttatgtttat tgatttataa tattaaattt 240
 ttt 243

<210> 31131
 <211> 210

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G10

<400> 31131

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 tcgtcatttg ttgtaaaaag gacagaatag gttttatgtt caggtgtggt taactttcag 120
 gtaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaagga cagaagatat aaaacttata 180
 aaatatacta aaaaatgcaa tactgataat 210

<210> 31132
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H10

<400> 31132

catacaataa ggaaccacac tttcatccgg tacatatagc ttgtctcggc aaaacttaat 60
 tttaaacaga agtgacacgg aacgaactgt cttagcactg cccttatcat aagatacaaa 120
 cctagctagg accagatcaa actgccattt cgaggacgct gttgggacct tagacctcag 180
 ctgccaagac aggagggcgc agctcgctct cctccttcgg ggtatggatg gtcaccaggt 240
 ccggaagagg ggtgatcggg ccaaccttgc ccttcgggtc ccagtcaagc atgatcttca 300
 ccttgatacc cagaacaccc tgtctgagga ggacgtgtct cacagctgag tcgatgtact 360
 cattcactgg ctgaccagat gagatcatg 389

<210> 31133
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H11

<400> 31133

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 ttatttcagt tggctttgca gaatactgat aactagaaaa agtagtagga cctcaccttc 120
 gtgtattatg atgatgcaca tacaattttc tgagtagaat ggatgttgaa tcatagaact 180

aatgaataat atgaacactc gccttcgccc caaaaaaata tgaaaacggg accctgattg 240
agaacatgat aaaagaagga aaagatgtcg ctccggcaagt gactatgaag ctagttcacg 300
aagccatgat tgcaaagtaa aaatgactta tttctggatc gccggaatta cattgaatga 360
acgggaattt aaataattg 379

<210> 31134
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H2

<400> 31134

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atatgcctcg taacgccaaa tacattgggg aggtctctgc acactatcag attgatcatg 180
gaatgctaaa tgtattgcaa gagaacgcta aactactcaa tcaaatacaa gtaaataattt 240
taacatcaca ggagtaattt tcaattcgtc tagataatac ttttcaggcc cataacaata 300
ttgaactttt tcatcacgca agaaggaaca tcaatggtct ttacaaaagc atgagccaaa 360
tttctgaat aatgagcaag atgtcccc 388

<210> 31135
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B10

<400> 31135

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 51

<210> 31136
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B11

<400> 31136

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gcaactgtgc atttcccctg ggatgtttga cgatctgagg catgcgagcc tgttggtgaa 120
gatgcaaggt tacgtacttg tacgacaatg tgacctgtgt agctgagtag tctatgtcgc 180
agtgacatgt aacggcaccc cccttactac taactgacgc ttactcgaga ttgccatagt 240
tgatcttgta atttggtata gagcagtatg aatgtattta tggtagcttg aatctatgta 300
tggattcact tcgattttcc atgttccctt gactgcagac ccagattgct accgtattgt 360
ttcagaattc ctagctacct gttgcctaaa 390

<210> 31137
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D9

<400> 31137
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cgctctggga cagctaata gttgttcacg ctacgacggg ctgattgggc aagacacagt 120
gacctgcatg aatatggtaa tacgtctacg aatgtatgca gccacttgca caatg 175

<210> 31138
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E7

<400> 31138
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ttcttttgta ggttcatgca tccattgtct caagtaggat tctcgttttc actatcactt 120
tctacattac tgaatagact ggggtatcat tcttttactc cttttatfff tgcttttatg 180
ctgcggtaaa tttgatggta ttctaataat tttagtatat gtaagtatgg tttgcagttg 240
tatatattat tagt 254

<210> 31139
<211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-F3

 <400> 31139

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 tctggggccga ggggctcggg cgcgaccacc tcggcgggat gaacgacctg tgggtgaagc 120
 actgcggcat ctccacacg gggtcgttca aggacctcgg catgacctg ctggtgagcc 180
 aggtgaaccg gctccgcgc gcgcgctgt cgcgcccat cgccggcgtc gggtgcgct 240
 ccacggggga cacctcggcc gcgctctccg cctactgcgc cgccggggg atcccgcca 300
 tcgtcttct ccccgccaac cgcctctcgc tggagcagct catccagccc atcgccaacg 360
 gcgccaccgt gctctcgctc gacaccgact tcgacgggtg catg 404

<210> 31140
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-F4

 <400> 31140

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 ggggtgtcaat gcgttcgtgc gacacattaa gaacgtcata atccatgccca cacctgtcat 120
 cttcaacacc ctgtaccaac cctaccgaga gggagcttac tatctacata tataccacta 180
 taaactcaac atgggtaccc aactgctgt ctaccactag cttttcactg aacatccctg 240
 actattatac acccacacaa cttatgaaac ctaaagctaa gaacgaaacg taccttgatg 300
 ctgtaatcac aattcccaat ggaaccttgt ttaccatgtg 340

<210> 31141
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-023-Q1-K1-G12

 <400> 31141

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gcggtgctgc gtgcgtgcgt gctctgcatg gatactatag agaggtagct agctgctagc 120
cagtgtgtgt gcgcgagagc gagacgaggg agatggacat gtcaagtaga agcagaggat 180
atgatgtcat tatacatatt tacttcgcga gatatgtagt tctcatgag tcttcgctgt 240
gcggttttct aaaaaaaaaa aaaaaaaaaa agataaataa aaaaaaaatt acaaaaataa 300
aaataaaaag gaccatgaaa taaaaataaa tataactaaa aaaaaaaaat aataaaa 357

<210> 31142
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H8

<400> 31142

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cacggttctc aacagcttgc caggctctct atcgaaatgg tctgtgcata cctttgctgc 180
tatgcgttcg ctctgtacta gcagctggac tactggctag aatggtcagt tcttctgccc 240
tgtttctggt gctattcgcc tcaacgttgt aaaactgaat tcagaacagt ttaaatatag 300
ctgtcatctg gtctaacatc tgggt 324

<210> 31143
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A1

<400> 31143

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tcggatctaa gataaaagcg agctgaccaa agcattaaag cagagatgga cctataactg 120
aat 123

<210> 31144
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A2

<400> 31144

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acttttggaa ccgttgatgt gctttggatg tgaaagtttt tggacatcag tcggcaattt 120
gacagcactg tacgtgttag ttgtcgtag gatatgtctc tagccgaaac gctagatccg 180
ccacaatgtc tacgccccaa ctgtttttct taaaaaagtg ccgcaactgt ttttctaaaa 240
aaaaaaagag aaataaagaa gtagatgcag aacaccaatt ttttaa 286

<210> 31145

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A8

<400> 31145

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aactgacaaa cgcgtgcatg cgaacggcat accgtcttct atagtgccac ctaaattcaa 120
tt 122

<210> 31146

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B7

<400> 31146

cggacgcgtg ggtcttgttt aacaaacaaa agacagaaac acataaacia ataaaggaaa 60
atgg 64

<210> 31147

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-B8

<400> 31147

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nttctcgttt tggggccttg aggggtgcac tgnntggcgg tgtgaagggg cttccctggg 120

tctggtggct ngggttggttg ggttcaaatt tcgnnatggc gcnnaggtgt nnnngctgcga 180

tctttcggct cgtagc 196

<210> 31148

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D12

<400> 31148

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gggagcataa catgacatat cacattccat gaaagggtc actggattaa gttgattcaa 120

gtctgactgt acagctgtgc agactaacta acaacaggga ctgcgctggt catcgctata 180

cgactaagga ccgtgggaac tccttataat ccaactgatcc aacacatgct tgctgagtaa 240

gatcttactg aattttaccg tgtgctgtaa acgactggaa ctatactgtt tttctattct 300

gatga 305

<210> 31149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D8

<400> 31149

caaacaaaac agatacttgt catttcgaac aaattcagac gtgtacattt ttacactac 60

gatccaccac ttagaaatgt aataccatac attccataac tcgagtgcac agtcaaccat 120

gtaagacttg ttcgattagc tctcaatcca tatggattga gtgggattag atgtgttgaa 180

ttcctaagca agtcaaagtt cttctaaatt ttttttaatt ccatcaatcc atgtattata 240

ggaataaccg aacaagacct aaaagtacag gactctttat gagtattatg ctagagaaat 300

aagcctgaat gttcagacca gccctttttt taaaaaggaa cttggatctt caaaacaaaa 360

tcgttatatg gccttctgct agagaaatca tgcctgcacc aatgcactca tg 412

<210> 31150

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F12

<400> 31150

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acctcagtgc aagccacaag ttttcggaag cgtctatgtt cattggcccc caagaagccg 120
taacgggaaa acaggagaag accacgttga catcatcact ttctacaacg aagtattcat 180
tcttgccgtc aagtccttgt tgggtggaggt agggcctggc gccagtccaa agaagaaaga 240
agaggaaaaa ggtcctgctg atgtaggtcc attcccagaa tctccccggc tggctcgggt 300
cccgaacctc ccgcacatgt ctccaaagaa ggtttctgct acccataacg tgtacgtctc 360
accgctacgg tcatcgaaga tggacactct gctgtccccg agctccaaga gctactacgc 420
gtgcgtcggc gagagcacct acgcgttc 448

<210> 31151

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-F4

<400> 31151

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ggtggaatat cattaaatga cattgcagaa tttgatggtg gggcaacaac tgaagaaagg 120
agcagcctag agaagcaccg atctgatgag ggtgtgaaga ttgctgtctc ccagaatttt 180
ggtagtatga atgaaaaagt ggcaattgca cctacctcaa gttttgagaa tcaagaagga 240
ttgcagcagc ctctgaagt tcttccaaat gctaaactaa gcaaaaaataa tgaccaagag 300
aacagtgatg tgcattgat acaagtgggt gctacatnct gtgattcaaa aggacacaag 360
tttggatc 368

<210> 31152
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-G11

 <400> 31152

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 gggccacaca tgctacgata ggatgtaccc attcactgat caggggacgt gcaataaaaa 120
 gatttgcttg tttctgggta acaaagccat tcccaaaact aagccgagat aacaaaacttg 180
 ccctctgtag tcgtaccatt cgctcaatgc tcagctttca ctttgacatc tgcattaggc 240
 aaagtaccct gggac 255

<210> 31153
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-025-Q1-K1-H2

 <400> 31153

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 actgaattat ggaggcccca agtcggtcaa caacaaaaag gtttctggga agggccatth 120
 tcgtgggaat aggcgctagt gttacctgat tcagcttgat gtgaatttga aggttgctac 180
 tgggtgctttt ggacgtttca taggcaattg agagttgaga tctcttcaga catcatgttc 240
 acgcggttca gagtatttga agtggaaactt aaactggaaa gtgtaagata atttccagca 300
 gagggtcct gtcatacttg cttgtttccc taacgatgat ggtggatgtg cctgggtgcc 360
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 tg 422

<210> 31154
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-026-Q1-K1-C4

 <400> 31154

aattctccgt gtcgactcca ctggtacgcc cacgcgttcg cccactcgtt cgaat 55

<210> 31155
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C6

<400> 31155

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taaaaggatc tgaagtgggt aaataatcgt gggtaatttc gtttttataa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atataaaaaa acaaaaaata 180
aagtacgcaa gcatgcaaag taataacttt tctatagcgt cacttaaatt caattcactt 240
tcca 244

<210> 31156
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D10

<400> 31156

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aagatttccc attttaagtg caaacctgag tttctccg 98

<210> 31157
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-026-Q1-K1-D12

<400> 31157

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ggtcggggcgc ggaggtgcac gtcgggcacg agctgtgcga gcgcaagtcg cgcgagttca 120
tggtggagct gggccttccc gacgggctcc taccgtgcc cagcctggac gaggtgggct 180

acaaccggtc gacgggggttc gtgtggctgc ggcaggccga cggcctgacc cacaccttcg 240
 gctccatcgg caagcagggtg tggtagaca gggagggtgac ggcgttcgtg gagccccggc 300
 ggatgcacgg nctcgccggg gtgaagagca aggagctcct catctgggtc accatctncc 360
 agatc 365

<210> 31158

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D8

<400> 31158

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aaag 64

<210> 31159

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E8

<400> 31159

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agcggttcta cgtccgagtc gtcgcatcag gtcccctcga ttccgcccgcg gcggcgccac 120

caaccaagct catacatctg aattgactag tccaactcag ggattttctt ggggaccaat 180

caaactcaag aactaagttt catgtctgat ctcgacgtcc agcttccatc tgcttttgat 240

ccgtttgcag aggcaaatgc tgaggactcc agtgctggtg ctggatcaaa ggactatgtg 300

cacgtgcgta ttcagcagcg caacggaagg aagagtctga caactgttca gggcttgaag 360

aaagagtaca gctacaacaa gatcctcaag gatctcaaaa aagagttctg ctgcaatggt 420

actgtagtcc aggatccaga gc 442

<210> 31160

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F4

<400> 31160

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agctacgttc aagcctgcta aagtttacac atgaaactgt aaaatggcag ctgaatgagt 120
tggaacaaaa tgacagccca aatccccaaag cacatttatt gcattggctc agtgtcggat 180
gtagtagcaa aaccatctgc gtaaattggg tgaagatcat gaccagcaac tggatcaaca 240
tgaaccatt tctgcctga gagtttgttg cgctcaaagc gtacattgcc ttctttcagg 300
cagaaaagtg tatgatcctt gcccatgccac acatagtctc caggatggaa gcgggggtccc 360
ttttggcgga caatgatg 378

<210> 31161

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G10

<400> 31161

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atttactttc caaacttcat tattctagaa aaaactcaaa gatatttaat ttaaaaatat 120
taattctttg atc 133

<210> 31162

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B12

<400> 31162

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tttttttttt tttttttttt tttttttttt ttaaaatcct ttatatcatt tttttatatt 120
aaaattttta ataaattttt cttttttttg caaaaaatta acatttatta ataattccata 180
tattttttta taaaattggt tataacttta attttttctt tttaaaaaaa aaaaatcttt 240
tctttttttt ataaaattaa aaaaattttt tattttttta ttaaataatt t 291

<210> 31163
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B7

<400> 31163

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gccatcaccg ctctcgctt cgtccctgc gcatccgccc tgcccatgga cgggtggctgg 180
tcgaacggcg gcgccacctg gtacggccca gccaaagggcg ctggatccga cgggtggtgcg 240
tgtgggtacc aggggtgccg cgaccagcct gcgttctcgt caatgatcac cgccggcagc 300
caatccatct tccaagacgg caagggctgc cgcacctgct accaggtgaa gtgcaccgga 360
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<210> 31164
 <211> 334
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-027-Q1-K1-B8

<400> 31164

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cgcgctgct ctgctccgga tcagcggctc tggcgcgccc tctcggggcc cagccccagc 180
ccggcgtggt tctgagccgt cggcacaacc aactcgccc ggcgcgggtg aaggttcttg 240
aagaggacgc cgcggggcct tctgcacctg cgacggacgc ctncgagcag tcccggcggt 300
tggaggaggc gatcgacagc gccatggcgc ggat 334
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<210> 31165
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C6

<400> 31165

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cgggcgccaa gaacctctac atcatctccg tcaagggcat caagggccgc ctcaaccgcc 180

tcccgtccgc ctgtgtcggc gacatggta tggccaccgt aaagaaggga aagcccgacc 240

tcaggaagaa agtgatgccc gccgtcatcg tccgtcagcg caagccgtgg cgtcgcaagg 300

acggtgtcta catgtacttc gaagataatg ctggagtgat tgtgaatccc aagggtgaga 360

tgaagggtc tgcaatcaca ggacctatcg gccgggaatg cgctgacctt tggcctagga 420

tc 422

<210> 31166

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D3

<400> 31166

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agactgtggt gctgaagggt gtcattccact gccatggctg caagaagaag gtccggaagg 180

tgctcagggg catccaaggc gtgcaggacg tgacggtgga cgctctgcag cacaagggtga 240

ctgtgacggg caccgtggac gccgacacgc tcatcaagag gctgtacaag tccggcaaga 300

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cgtcggctcc gcagcctgcc ggcgacggcg gcaaggatg 399

<210> 31167

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D8

<400> 31167

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aagggaagaa ta

72

<210> 31168

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D9

<400> 31168

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tgatgctcat atcttctgca gagaagacca aatcaaggat gaagttaagg ctgttttgga 120
attcatcaat tatgtttatg agatatttgg cttcaaatat gagttggagt tgtctacgag 180
accagagaag tatctaggtg aagttgaaac ttggaacaaa gctgagcaac aattgacaga 240
agctttaaat gagtttggga agccatggaa gattaatgaa ggggatgggtg ctttctacgg 300
cccaaaaatt gatattgggtg tgtttgatgc ccttaagagg aaatttcagt gtgcaaccct 360
acagctggat tttcagctgc ccaatcgggt caagctggct tattctgctg aggatgaagc 420
ccaaaattga aaggcctgtg atgatacaca aggcaat 457

<210> 31169

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E2

<400> 31169

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aacggcagtt aactagctag ctagctagca gtcgtagaat gacgatgagg ggtctctctg 120
ttgcggtcgc tctggctcgtg gtgggtggccg cggcctgcct tgccgcgccg cggggcgccg 180
a 181

<210> 31170

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E7

<400> 31170

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tgcagttgaa tgatactatt acatcacact gtaaattgtg agccaagaat gtatcgtctt 120

gcatttggtgta agaccgtaag agaaagggtta ttgtgactcg ttacttgtaa atacgtgcac 180

tgactgttca aagaaactaa gaaagacaag gtggagggtgc taccttccca ctacccaaaa 240

aaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaataaaaa aaaataataa accaatttaa 300

aaataaaaaa aaaaacaaaa tatataaagt ttactctaata tat 343

<210> 31171

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F5

<400> 31171

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gccgggagggc ttggggccgga gcatgttcct gacattacaa attagcccct agtcaccgga 120

aggcttggac cggaacatgg caaagcatgt ttctattggt aagtttgaga tatgctcaag 180

cttagttggt attataaatt agcccctagt gggtgttgcc gccggcaaga tgatgatgta 240

ttgtttgagg tggagtttgc tattatgatg ctacaaagaa tttgtctcaa gggtgagttt 300

gtgatcatgt tccctattag tt 322

<210> 31172

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G1

<400> 31172

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tgaagaaggg cggcaacagg ttcatcaaga ccgccgcata cggccacttt ggccgtgacg 120

acgccgactt cacctgggag gtggtcaagc ccctaaagaa ggcacccgct taagaatgta 180

ttgggaagtt cactggacat gaggttcac ttcgtctggc tctgctgata cctgcaagga 240

ttgctgctgc tgctgcctgc cctggatgtg tgtttgatca gtgactggct gctctgctcc 300
 atagaagatg aatgaagaga gagatgggtga agaaggcttt ggcaaattggc aa 352

<210> 31173
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H3

<400> 31173

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 cacagatgtt atcgctcgag atatggcagg gtgctacgtt tcactagcat tatcgtttgt 180
 aatttgattc acgctctttt gtacataaga attcatgatg ttataaggta aaaaaaaca 240
 atgtgactaa ctaaaggatt aaccaacata tataaaaagg caaacaataa aggaaaa 297

<210> 31174
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H4

<400> 31174

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 gacatgatca tggattctgt gttagcatcc gattatttgt actcttgatt ctttggttcc 120
 atgctctcta cggccatctc catgtcaatt tgctttgcca acaatataat atcagcgtgc 180
 cgtgccctcg tggatttcca aatgggtata tgcatatgta ctattgaaat tgtcatatca 240
 gtttgcatatc aataccaacg cgcctttgta gatttcacaa tggatatatc tggtt 294

<210> 31175
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-H5

<400> 31175

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gtaacacgca aaacatctca tctgaaagag gccatcacca tgagacccca caaatgctta 120

attggcggggt gataaaaggc ggcctacctc cgттаатctg caagccagcc ttaccaccac 180

ttccaattcc aaaacaacca agcaaaacgc taccacacca accaggctaa caccagcacg 240

acaaaacccg cgctaatact aggcccaaac tactggtaat tccccagatc caaagcgaga 300

tgcaccattc ataaaaccat ggcgcctntc ggcaagctcc gagtgagggg ggacgactct 360

accacgacca acggaaaact actac 385

<210> 31176

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E10

<400> 31176

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tctgtggatg attcaagtta cagaattcta aggcaaaatt ggtttacaag aaccacatta 120

ttacagtaca gcccttgttt gtaattccta agattctttt gtttcttcag gtgcagctcg 180

cctcgctgtc ataaaggcaa agcatatctt ctcttctgct cagctcctag ccatggctcag 240

atgc 244

<210> 31177

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E12

<400> 31177

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agcatcaacy ctgcctgttt taaatctcaa taggtgctgt tttaaacttc agatctcaat 180

atatgactac tgatcgctga atagatttca tgctctcttg attgactgca taaaaaaaaag 240

actgcacctt gcctacaggg aggaaggact gcgcaaggag aacgcca

287

<210> 31178

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F12

<400> 31178

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tgtgcatttg gcgtcgggct gactacttat gacaaggcct cggatgaatca ctatgtgcat 120

tcacacatac agatgaatga atactgagat tgggtagacc tgtcggctgc atcaatgaag 180

tttgctagac agattaatac ctgcttgaac gttatggata tgactggact caagctgtat 240

gcactgagcc aaataaagat gctgacgatg attactactg acgatgacct gtattatcct 300

gagaaaacgg aaactgatta cattgctaact gctccatatg tattttcagc gtgttg 356

<210> 31179

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F6

<400> 31179

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gtaactttgt tgccggcatt gttgtcgtga ctctggccat agatcctttt atgtacatgc 120

gaaatgtaac caagggatat ggaataagaa catgttcac cgtttgtaga cagcatgggtg 180

gtacaggaat tctttttatt ttcatagtt gattgggtgat g 221

<210> 31180

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H2

<400> 31180

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taaattggag tttatgcttg ccatctactc aaaaaaaaaa gaagcaaata aaaaaaaaaa 120
 aaaaaacaa 129

<210> 31181
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A10

<400> 31181

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 ctgctaaatc atatctcttc tatagcgtct cttacttca attcactgac ccccc 175

<210> 31182
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C5

<400> 31182

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 ggggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca taaaaaaact taaaataatg 120
 gcgtccgttc ttgagtatcc atttttcctt gcccggtgctt gcaacgtttt acttctttta 180
 tagtgtcacc taatttcatt ttcttgtcct ttgttttaca tcttcattcc tggtaaacc 240
 ttgttgttcc ccatcttaat ccctttgcag cacttcccct ttttcccatt tggcttatta 300
 cctaagaggc ccgctctatt cgcttttca aacatttgcc caccctgatt gccattgga 360
 actccccttt tatcgccgct ttaatcgcgct ttgctttggt gg 402

<210> 31183
 <211> 53
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D2

<400> 31183

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<210> 31184
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D6

<400> 31184

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aattacttac ctggatattg cttccttaga gcaactatag cagttttggg ggttgattct 120
aagaaatgag tccatcaggg ctgcaaacc cattgctcct gagtcctgtt gagggctgag 180
gagcctactg ttggtagctt agacgagctt aaaggaacca agcctggcaa ggcttgaggt 240
cgtagaacat gtaagtcaag aagggtgaagg ggatcatgta aaagagcttg acaacctgca 300
cattctatgt gtttgaaata cccactctgc ctattgccat ccaatgtttt tcagagttct 360
gcatgttaac catcgaaagc aacttgata tgaaaacgca taaagcttgc aggtggtaga 420
ctaaccgtaa ggagtcgact ttggggatga ccattaatac c 461

<210> 31185
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F1

<400> 31185

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gtttggtggg aaatggggag agaaactgga tgctgcttta gttacagaca tgggtcgtta 180
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tcattacaga gaactttcag atgatctcaa gggcatactt gggtcattgc cagagggatt 300
tgatcactat tttgctagcc gatttccaaa gttgctaatt gaggtgtaca aggtcttgtg 360
ggtgcactgc aaggacgaag aagctttcag taaacatttc aatggaagct ctttatagct 420
ggag 424

<210> 31186
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-029-Q1-K1-F3

<400> 31186

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 gaggagttgc gccgtgcagt ggacgctcat acagaatttg cgtcgcctgt cgtcacctgg 120
 aactaatcga agtcagcatc tgcacatta tgcgttatga ctaatttatg gaaggcaggc 180
 tgttcgccag gtctatgtat gatgtatccc atacacggat gatgtgcaa aaggctttcg 240
 tctgacctgc agctgcttct ggaatctgca tctgtacaat tgtaccattg ttaccctctg 300
 ccttgtagct gcaaagcagt ttgttgtaac aattaaatga ggcgccggat cctcacgcca 360
 tcgaaagttt gaaacagctn tggttgtgta tggtagttcc aagacttggg gattataatg 420
 tgcgcatatt ctcga 435

<210> 31187
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-F4

<400> 31187

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 aggaaggaaa aaaccaaaga aaaagacact cataaaaaat aaaaaaaaaa ataaaaaaaa 120
 aggggcctcc tttctatagg acccatgctt ccttaccctt gcttactaat tgataactct 180
 cctattgggt cacctaattt cagttcct 208

<210> 31188
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-029-Q1-K1-H12

 <400> 31188

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 gcaagattgg gttcgacctt gattatgatg agaaagacac aagctataac aggatcaaga 180
 tccttgtgac tgaggagttg aagcattact tccggccaga gttcttgaac agattggatg 240
 agatgattgt attacggcag ctgactaaat cggaggtgaa agagattgca gacattatgc 300
 tgaaagaagt gtttgacagg ctgaacgcct aggacattaa tctccagggtg accgggaagt 360
 tgcgagattc agttgctgac gaatgttatt acccgagcta 400

<210> 31189

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B12

<400> 31189

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 cggacacgac ggcagcgtct gggcacagtc cgtgaacttc cacgagttaa agcctgacga 180
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 tgttggaagt acgaagttca tggatgatcca aggtgaacct ggagctgtca tccgaggaaa 300
 caagggcact ggaagcatta ctgtcgagaa aactggcaag tacctgatta tcggtatcta 360
 tgacga 366

<210> 31190

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C12

<400> 31190

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 cgtcgatgac cacctgctgt gcgacatcga aggccagcac ctcagcgccg ccgccatcgt 120
 cggccacgac ggcagcgtct gggcacagtc cgagaacttc cccgagttaa agcctgagga 180

ggttgctggg atgataaagg acttcgatga acctggaact cttgcaccaa ctggtctttt 240
 tgttggaggt acgaagtaca tggatgatcca aggtgaacct ggagttgtca tccgaggaaa 300
 gaagggcact ggaggcatta ctatcaagaa aactggcatg tccttgatta tcggtatcta 360
 tgatgagcca atgactccag ggcaatgcaa tatggtgggtg gagaggcttt cgcgatacct 420
 gatcgaaca 429

<210> 31191
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C2

<400> 31191

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 aaaaaagaga aa 72

<210> 31192
 <211> 77
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D1

<400> 31192

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 aaaaaaaaaa gaaaaat 77

<210> 31193
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E12

<400> 31193

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 gctggcggtc atcgctcagg cggacaacta ctacatcgaa tgcgagccga tcgtggacct 120
 ggaccaacgg tagcgctcta ctgagacaca gtcctacgaa gatctctatg acaacctctg 180

cgactgcggc gattggaccc gcagccgcta cacggccccc gtccacgtgg actacgagaa 240
ggcggacgat catcggcaag ccccgcaagc 270

<210> 31194
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F10

<400> 31194

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cgttgatttg cttgccaaaa aagctagcaa c 151

<210> 31195
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F12

<400> 31195

cggacgcgtg gggtcgaggt atcagtatca tttgagacgc aaaaaaaaaa aaaaaaagga 60
gaaaaggaaa aaaaaaaaaa aaaaaaata agacaa 96

<210> 31196
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F3

<400> 31196

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ttttgggcga ggccttggtg gtggctcttt ccgctgtgga agaggaccac caaggtgggg 120
tggtcgaggt ccaaggggtg taagccgtgg cggttttaga gggctaggat ggttctaggt 180
gcagtttgag tttgatgatg ttttccctt gaagcatcat agctgcacaa ttggaaactt 240
ccatgttatt gtaaccagat atgtttaaag tagcagagca ctttatctgt ggaacttggg 300

ttctcaactg acacaaacgg cttgtacctg tttcgtttcc aatggcacat aa 352

<210> 31197
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H8

<400> 31197

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gtgatgacac gctctagtgg agaccattac tgcattatcc tggtcctact acacatatat 120
ggctagccta tgaactactg tacctagata atttctgaca agcaggtgca cgagaaccac 180
tgaaccgatg gtcggtatgc acagctcggg tacgagatcc gctcgacaac tgtgcatgac 240
aagatgatgg aaatgtggaa aagcaatttc attgtgaaaa cggctctctag atcgaagacg 300
gatgtgaaat atcatgatac tagcatacat ctgtacatga tggacctgaa ggcaccattg 360
atccctgagg ttgaggctgt cgactatggg aactactaag aag 403

<210> 31198
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D11

<400> 31198

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cgggcttctg agaaggacta tgaggaagtc ggtgcagagg gtgccgatga tgagggtgac 120
gagggagacg actattgagt agctggctaa taagtagttc tctggtggtt aatggttggg 180
ttatittgag tatatactct atggttccac tccattggat actgctgctg cgtgtgtttc 240
cattttgtac tatgtagtaa attgttcgta gccccctaaa aataaattga ccggataatg 300

<210> 31199
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D5

<400> 31199

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agcatattcc tccaatgaca gagcttacct atgattatgg ccagaaccag cgtaatagta 120

ttcaaattggg aaccatttct ggttttcgga agtctaaaag ttgcttatgt tgggtcccga 180

agtgtagagg ttcccttggc taataaccag ccctataagg aatatattgg atcataatac 240

tccatttcaa agttacacct aagatatctg ctggtcgact tttatattca gctcccaaaa 300

atctgtcaca agtttgtgag agcaactgaa ttgtctttac cagcagaagc agcccgcat 360

ggtggcctgt atgaatcagc acgggtcttc ttatgtccta agagttccat gcaccatcga 420

ataaaa 425

<210> 31200

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E1

<400> 31200

atatgctaga aacgtgcgcg actgcaccct attgtcgta aaaaaaata aagaaaaaag 60

gaaagggttaa aaatggaaaa ag 82

<210> 31201

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E6

<400> 31201

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gtttgtcgtg ttactcaaa cgataaaagc aaattcaagt tgctatattt tgagcttgaa 120

gaaaatggcg ggcttagtct tgactacag gaagacagtg tgaaggttgg gaaagttact 180

gctgcaggga tgtatttctt tggttttcct gtgtaccgtt ttgaacaaaa taacctggca 240

gctgctgcaa aagattctga tggatgcattc tttaaaagat tggatagctt tcagccatgt 300

gacatacatg aactgaaacc tggaacacac ttctttgctg tctacggtga caacttcttc 360

aagagcgcta gttatactat agaggttgta tgtgggtgaat cttttcctgc cgaaaaggag 420
atgctacgaa atgtggaggc caagatactc acaaaacgag c 461

<210> 31202
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F3

<400> 31202

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taccaaata ga atagaaagat ggccttgctg cgctcgtgct tgagtgcag tttggtggtt 120
atactcgatc gatccattca gaaattactt gacacaggta tatattaaaa aacacacaca 180
ttcaggaata cggggcaaac gatggaaatc taaagaatcc gatgaaaggg tatggaatat 240
atatttcac 250

<210> 31203
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F8

<400> 31203

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gacaggggag 60
gtcgaatgtc aa 72

<210> 31204
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A2

<400> 31204

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ctgcaagagt aggagccaa aatggagtcc aaatgttgag cccctcggaa atcccacaaa 120
gggactggtt cccctctgac ttcaccttcg gagccgccac ttcagcgtac caaattgaac 180

gtgctcggaa tgaagatgga aagggggaaa gcaactggga tcacttctgc cacaatcatc 240
 cggaaaggat actggacagg agcaattcag acattggagc gaattcgtac catatgtaca 300
 aaacggacgt cagattgct 319

<210> 31205

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B10

<400> 31205

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 acccaagctc ctgagcctca gacaccggat cagcagcgat caaatggcga aagcacaacc 120
 agcgagggag ctgcagagga gcctccagcc gagcagatgg agacagacaa acctgagggg 180
 gccacagatc cctcggetta gctttgcagg tgatggaaca tttgtgtgat tgaccttata 240
 cttggttggg ggtgaactaa gcaagatggg tgttcgccac atttgagaat gtgtgttggg 300
 acgttttttc gttatttctg tttcttgacg gaggtgggtg gatgggttgaa ggatgagagc 360
 agtagggtac acttcgtaaa tggcgattcc g 391

<210> 31206

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B2

<400> 31206

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 agggactacc aggattatct caagttgagg acaagggtcg aattccttca aactacacaa 120
 agaaatattc ttggcgagga tctgggtccg cttagcatga atgatctaga gcagctggag 180
 gaccatatag agatatctct gaagcatatc agctcaagaa agaatcaa at gctacttgac 240
 cagctatttg atctcaaaag catggaacaa gaatagctgg atctcaataa agacctaagg 300
 aagcagctgc aagaaac 317

<210> 31207
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-E3

 <400> 31207

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 ggcgcggtatg tagaccctcg ccgctgaaag aaacgatggg aagccattg tattaagtta 120
 agccgggctg tgccgtgaaa ctttgggacg atgctcgagg ggacagaaac tggaaacgat 180
 ccggctgagg atatttcgat ttggtttatg tgaattccat ctctacata tttgaaatca 240
 agttgggatg ctgggagctt cgaatgtaaa aaaaaaaca caaca 285

<210> 31208
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-032-Q1-K1-G7

 <400> 31208

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 tggcatacaa ggacgaccg acgatcatgg cgtgggagct gatgaacgag ccgcgttgcc 120
 agtccgacgt gtcgggccac gccatccagt cgtggatcac ggagatggcg gcgcacgtga 180
 agtccatcga cgggaaccac ctgctggagg ccggcctgga gggcttctac ggcgctcgt 240
 cggcccgag gtccgcgaac ccgtcggggg accaggtggg caccgacttc atcgccaaca 300
 accgggcgcc cggg 314

<210> 31209
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-032-Q1-K1-H3

 <400> 31209

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gctatagatc gcggtgtgtt gaaattccca tgatagaact aacatataaa catggatatt 120
 caacacagga tagtacagtt acacctccaa aattcatttc ccgaagcgag cacatagaca 180
 ttcagattac atatctacct gcaggacaat gcaactgaacg tgcataataa gaatcacc 238

<210> 31210
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-033-Q1-K1-A2

<400> 31210

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 tatccagcag cacatgaggg tcgaaaagaa caagcatgaa aatttgagca aaccgtatgg 120
 aaacacctct ctctcttcca tacaacacta gcacctagaa ggttctggga caccttaata 180
 taggcattgcc atcatttgca aagcggttctt ggcactcgtc actcgatcag ttctcacctg 240
 gctggtggcg tcgggggagg catgcttgct cttgccaatc caaccaagc aacaatgccg 300
 gcgccaagga tcacccatcc acaaacatcg taccagaagt cattgtcctt cttcttctt 360
 gattgcctng gatttgaggg tgaggatgct tgtg 394

<210> 31211
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B1

<400> 31211

atgcagtggc aaggggtggg gttgctgctg acctccgggg aatcgtgtgc agtcgccggg 60
 tgggccggat cgtccagcac tggctgcacg ccggagaacc tgaccggttc tacgaccgc 120
 tgagcgacta tgtcacttg ccaacactct acgaaatcga gaagcatcgt gagaaacacg 180
 gggatgtcac gtcagtagcg gaggactggg agatcatctg cccgaacgac ggcaagacca 240
 tgaggccagg cgagtttctt cctatggtca gcacactgac cagcagcctg gaaggcaagg 300
 aggtgtcact ggaagaggcg caagccactg tggctgttca cccggagaag aaggggctgc 360
 agcatgtgca agttagggt gtgggtgtca gtcattggtg gctaagccgt atgagccact 420

ttggttg

427

<210> 31212
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B5

<400> 31212

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ggttccttac taacgaaaca catgcatgcg acttcaataa atcttctata gtgttaccta 120
aacttaattc actgtcccta gctttacaac ttcaacactg gtaaaactcc tactttaccc 180
aacctaattc cettgcacta catcctcatt tcccttgctg gctgtatagc aatgacgcct 240
agacctttcg ccccttccaa cagttgctca tcctcaatgt caaatggtac tcgccctgta 300
tctgtgcatt aacattcggc gctgtcgttg ttctgctcta ttgaccgtt acatttgcca 360
tttccatttc tcttgctcct ttttctttct ttcttttctt ttttctcact ttctcctatc 420
ttttctttt catgctttaa atttt 445

<210> 31213
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C5

<400> 31213

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gtatgctact acagacagag accagcagag gccactgtca cgctccattt cgactgcgga 120
ggaaccgttt ttgagactcg tgagatggcc agagagttca ggttgttgcc gtcgccgaag 180
ccagagacca gtgccccggc tgagcgaagg ccccgtagct taacgcgttg gcgccgcct 240
tctcgctgct cgtgtccac aggaacgcgg ttttcgctgc tagcacctgg ctgttcttcg 300
gggacccctt ggccgcccgc tcgaagtatc ttga 334

<210> 31214
<211> 62

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-C8
 <400> 31214
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 ag 62

<210> 31215
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-D9
 <400> 31215
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 tcataggtgt agcttacagc accgatcaac ttgaaaccaa aaccaaagaa agaaaaaatc 120
 acaggtgggc tgggtgattt gcaatgcctc aaaggttatc gtcgatcagg cctacaggaa 180
 gtttcggatg tccagtttcc tgacatcagg catctgctaa tcttggaact cctccctctt 240
 gagtcgagtc tccattgcct caacacattc cttcttaagt tcagtcagct cacttttggc 300
 aatctccaat tcaagttctt tctcgatctt aggaagatcc tacttacgaa tgccaagcta 360
 tgcgttaatc ttgtcaaact ctgccataag ggtggccatg ttc 403

<210> 31216
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-033-Q1-K1-E9
 <400> 31216
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 ttttctccta tattacagat attcaaactg tactatggac tctgtaagaa tgagcaataa 120
 actaagcaga cagaagttaa aaatagaagt aacagaaatt taaaagtggc gccgttgccg 180
 gggatcccg gtcgcccgcg tgacaggcgg gagtctcacc actgtaacga ctgggatgcc 240
 tagggtttag tggatgtatt gttccacgac taatgttttag tattggaagt atgatatata 300

gtgtaattat aaaactaatc gtatgaagga ggaaagataa acgaattgat caagtctaaa 360
aactt 365

<210> 31217
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G10

<400> 31217

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agaagcagaa acacttgtaa aacagtggca agacataaaa tctgaagctc ttggccctga 120
ctatcaaact gacatgctac ctgagattct tgatggttca atgctctcta agtgggaaga 180
cttagcgta ttagcaaagg accagtcttg ctattggaga tttgtgctgc taaatcttaa 240
tgttggtcga gccgagataa tcttgatga aataggtgct ggtgaggcag cagaaattga 300
tgctgtactt gaggaagcgg ctgagcttgt tgacgattcc cagcccaaga aaccgagtta 360
ttacagcaca tatgaagttc agtacgtatt gaagaggcag aatgatggat cttggaaaa 419

<210> 31218
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G8

<400> 31218

aaagaaaaaa aaaaaaaaaa aaaaataaat taaaaaaaaa aaaaaaaaaa a 51

<210> 31219
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H1

<400> 31219

aaagaaaaaa aaaaaaaaaa aaaaaaaaaat tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60
cagaagggtt taaaaaaaaa aaaaaaaaaa aacaaaa 97

<210> 31220
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-H2

 <400> 31220

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<210> 31221
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-H4

 <400> 31221

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 tcatcgttga tcaacaaagc aagttgcaag cggtgaaagc gactgcgccg gtgtctctgt 120
 ccggctagct caagctcttc gtcctgcgg ctacaagtag gaccatgaca gggagagatg 180
 aaagctccga ccgtagttcg gcgtgcttgt tggtgggaac accggctcta ctagctgctc 240
 ttagaactgc tgctcacttc tggataaatt atcagttaat tagtatgttt gtatgtgaca 300
 tgagtgtaga tataatttct cactcaaata atgtcactat gtaattatgt tgatgctata 360
 aacttaatat atattaatgt ttgaattaag gcattc 396

<210> 31222
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-033-Q1-K1-H8

 <400> 31222

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 accaacacat tcctgggcta gcaactgggtg tggagaagac aagaacaagt gccttaacga 180
 aacagagccg atctacaaaa ccggatacaa agctgcaact acagactaca gcttgatggc 240

caaagctaag cactactttc gaacattgga gccgaaaggc atacatgttc agatactgaa 300
catcaccgag ctgtctgact accgcaagga cgggcatcct acggtgtaca ggaaacagtt 360
tgctcctctg acgaaagagc aaatcgaga cccagccagt tacgcggatt gcacgcactg 420
gttgccctccc ggagttccag atgtctg 447

<210> 31223
<211> 130
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-A12
<400> 31223

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gagaaaccaa gcaaacatac acgagcatgc aacctcacia ccctactaat agcgacacca 120
aaacacaaca 130

<210> 31224
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-034-Q1-K1-C1
<400> 31224

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ctacaccaag taggtaaaaa caagtttgcg gctgcctgcc gccataccat gccatactct 120
ggccggtata gctgcagcag attgtatata agggaaaaaa aagaagatac acatacagta 180
cgaagaaggc aaatgaaatg ccgttcgggc ggtagcctag gcgtgtacag ctgacgcaga 240
cagacccccgc cttgggcggt agcctaagcg tgtacagctg acgcgcagac agacc 295

<210> 31225
<211> 235
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-034-Q1-K1-C2

<400> 31225

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aaaagccgaa gccgaccgac ccaggggtgc gcagcgcaat gcaactagca tccagctctc 120

tctccccgga ccgttcgccg acgttttagtt tctattgtgc acgtgcatgc atcgtagact 180

gtttcaggcc gacgctgcgc cggcgccgtt cgcattgggtt gcttttactt ggacc 235

<210> 31226

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E2

<400> 31226

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ggctacaaga catgatcaat gaggttgatg cccactgcaa tggcacgacg gacttaccgc 120

agttttctcaa cctcatggcc cgcaagatga aggacaccga ctcttaggag gaactcaagg 180

aggcgttcac ggcgttcgac acggaccaga acagattgat atctgccgcg gagctgcgac 240

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<210> 31227

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E5

<400> 31227

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acgagaagga ttctccaag accggcaggg attcacagga ggcccttgct ccaactgggtg 120

atgttgcgct caagctctcc aagatgcaag agtacactgg ccgctctgcc cccaccgtta 180

tcacataaat ttttgaagag tgatttacia tgagttgagg cgcttacaca aattttcatt 240

caagcctctt gttctatagt tctacttctt gttgcatctc accaatgaat aaaatgtatg 300

tatcagactc gccccgtttt tttttttgtc catgtactgc aatgcagcgg actgaaccgg 360

tggcacagca tgcggttaata atcttgtcac aatgacagtg ctgtaatcgg gagcgtgttt 420

cttgaatct tgtaggaag tgtttctggt 450

<210> 31228
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F4

<400> 31228

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aagaaa 66

<210> 31229
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F6

<400> 31229

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atgaagtacg taccaacagt gaatagaagc acgttggtga gttagctagg cagcaatggc 120

agcatttggt tttaactgag catgcatact ggagaggtgg gcaaagacca aaggagcatg 180

catactggag aggtgggcaa aagatcaaag agccatttga atctatcggt gtgacattgt 240

ctaccattct gatgcattgc aaccttctct ttctgttgta tcttagttac atactgcact 300

attatgtgga tggtgtgttg ggggctcggt gcaaattggt ggatttcagg atctgttctt 360

gtagactgc acttgtttat aaagtagcgt ttg 393

<210> 31230
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-G10

<400> 31230

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gaagagaata tagaacaaga caactcacta tagggatcta ttttcaatag taaaagaatt 120

attctaagaa gacctattat ggtcttgaat tatgtcatta attctatgta atttgcacatca 180
 acttcaagaa tatcattgta gttatgtcca aataagtcca tatatgtgag atccatatga 240
 tggacgctat tttatccgct taatatcata ttgcatccat atatatagat atcaaagtgt 300
 aaaaagggtgg acctaattcta aaaaagaaaa gacctggtaa aac 343

<210> 31231
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H6

<400> 31231

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 ttgctgcttt gccagcaagc tgccgcgctc atcctcgcgc gccgccgtca tgaagcgcaa 120
 tccccgcgtc acgagctccc gccggaagtg ccgcaaggcg cactttacgg ccccgctcctc 180
 cgtccgccgc gttctcatgt ccgccgggct gtcgacggag ctccgccaca agtacaacgt 240
 gcgctccatc ccgatccgca aggacgacga ggtgcaggtc gtgcgcggca cctacaaggg 300
 ccgcgagggg aagggtggtgc aggtctaccg ccgccgctgg gtcattccacg tcgagcggat 360
 caccgcgag aagggtgaacg gctccaccgt gaacgtggg 399

<210> 31232
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A5

<400> 31232

tccaagtcta acaggaagag gacagctaaa cgaactgcat tttctgattc agattcagaa 60
 gacctagacc tatcaaagga ggaccttgtg aagctgcttc ttgagaaaga cgaatcattg 120
 aagtctaaag atgaagagtt taaagatatg aaggataagg tcctacgcag ctatgctgag 180
 atggagaatg tccttgccag aacaaagcgt gagtcagaga acaccaagaa gtatgccata 240
 cagagcttct ccaagagctt gttagatggt gcagacaatt tgtctcgggc atcatctgtt 300
 gtcaaggcaa gtttctcaaa gatagattca tctaacgatt ctgatgaagc tgtaacacta 360

ctgaaaaccc tactagaggg tgttgagatg actgagaagc aacttggaga ggtctttaag 420
aagtttggag ttgaaaagtt tgatcctttg 450

<210> 31233
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B6

<400> 31233

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gtaatgtctt gtagtgggtcc gtttaggcgg tgtagtcatg ggaacgcgac ctcagatacc 120
tggtttcttt tgattgtgat gttatcttgc attattgcac ctgtaggatt tgttgaagct 180
catattttcc aggggttttg atcttttgtg ctagtcttgt gtcttttgtgt atgcagaggg 240
tgagctagga ttatgggtatg taaggagacc aactaattca tcaatactat atgatgttat 300
caaaaaaaaa ataaataaat ttaataaaat tttatataaa aattttaata aattaattat 360
ataataa 367

<210> 31234
<211> 144
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-035-Q1-K1-C1

<400> 31234

tcgaagcagg cctagtacgc cgnctgcgcg ttctctctat tacacataca cgcagggagg 60
ggccgatatg tgtaatagga ggctccatcg aacatcgatg gcttgcttct ttatcagaac 120
atgtttgaat aaacgctatt tggt 144

<210> 31235
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C10

<400> 31235

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaata agggcggcac gatattaatg 60
 aggcgggctt acatacacgt ccatgcgaca tgcgtggctc ttctatagtg ccacctattt 120
 ccaact 126

<210> 31236
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E11

<400> 31236

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 cgtgtgggcg aacaagccgt cgtggaggag agagatgcaa gaagagagaa aatagagcag 120
 ggcttcagct acgcgattgc tggccaagaa caggtaaccac aggatgaggc gcatggagga 180
 tgctgtgcga gtctgtgaga ggtctaggcc gtctgtctccc agtcaacttt gggttgctgg 240
 accgttgtct ccttataatg taatcatgta ttacgtatag aactcctgct atgtagtaaa 300
 gatgtgacat ttgatcctgt gccatgattc atcatatgtg tgaaaaaac aataac 356

<210> 31237
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E7

<400> 31237

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 gctatactga ccattgcagg aaaaaactgc ctgcgttatc aattataaaa ttccacagat 120
 cagacatgaa ggtaaagaca tgaccgaagt gtttgaaatc acagtcatca agaaaagaaa 180
 aaaatgatac t 191

<210> 31238
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F12

<400> 31238

tccactcgtc cgggtgaggg agctcaaccc gtggcagtat actgcagata tcccgtgat 60

ggcaaatttg gaggttttgg ttcaaaggcc taaggacatt gttcgtaaac ttcagtcagg 120

cgatcttgac cttggtgttg tgggttttga catagttagt gaattcggaa tctgcaatga 180

agatttagtg gttgttcatg atgctcttga gtttggacat tgtcgtttgt cccttgcggt 240

acctaaggaa ggcattcttg agaacataca tactatggaa gatttgctaa agatgtctga 300

atggacagaa gaaagggcac tacgtgttgt tactggattt ggatatctaa gcgataagtt 360

cttaagagag aaagggtttt aagcatgttc gt 392

<210> 31239

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-A11

<400> 31239

taatcttatt cagttcaagc atttatttaa tacgccaatt gccaaatgtc ttacaaaagc 60

aagagcacct acaagatatt gtaacacatt ggaacgctcc ggcatttga atagcaactc 120

tacaatcggg agcgcaacgc ttgcaacatt tcgtgttttg ccgaaaagat gcaaaagaaa 180

aaagaacagg gaaagtccgt tggaccgcat gcatattccg atacattcca tccgaataat 240

atacagagca ctaacggtaa ggatcaagct tttgctggcc atgtcgctg agatgacata 300

atgatgccca caatgactcc gaacagtccc agagcgctgc cgaagatctc aatcaccaaa 360

atctttacaa agagtgatga gttctgagca tcagacagtg cacagctgct tncgattatc 420

cccacacata cccc 434

<210> 31240

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B5

<400> 31240

aaaaaaaaa aaaaaaaaaa aaaattagaa aaaaaagaaa aaaaaaaaaa aaaaaggga 60
agggt 65

<210> 31241
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B8

<400> 31241

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gtggagtcgg atgtaattac accgtgccct agcgacttct atgattcaga gtagtctcct 120
ggacaagcca cgctgctgct agtttcccgt gggggcgcat tcctttattc tttgcgtata 180
ttgtgtaaat gcattgccgc ggtgtttggt ctccaatcgg ctggctcaac gggtgactct 240
tttttgcgtc tgtataccta tgtatgtatc tgcatgcta caagttggct atatgctgat 300
ttaataataa gagagaacta gaacttacta gt 332

<210> 31242
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C1

<400> 31242

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaata aaacaacaac aaaaaaaaaa 60
aaggaaaagg aaaaaaaaaa aaaaaaaac aaaaaataaa aa 102

<210> 31243
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C7

<400> 31243

cccacgcgtc cgggcggatt ctttctcttc tcatgtgtgt tgctcttgga ctacctgaag 60
gaattcgaga agtacctgct tgctcagagg caccgagctg gagatgatgg cggcaacggg 120

ctgttgcagg catgattgct ttccgctggt ctactggca ctagcagcta ctagtttctg 180
atctgaagtg ctctcttttg aacataacat gtgtctctgg gttaaaatcc aactgcaatt 240
gattgttctg agaacttgct ctgccaaaaa aaaatgtaat gtattatatt acgaaaaatt 300
tataaa 306

<210> 31244
<211> 160
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-D4
<400> 31244

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cagcatggct tggttggtgta ttctgttttt tcttctattc taaataatct gattgttgta 120
tccaatactg tacttttttag cttagaagaaag aaataacttta 160

<210> 31245
<211> 185
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-F11
<400> 31245

tgattagtaa cactaatcta gagaactgaa tttaaacatt ttaaaactag taacacgcat 60
agggatctgg tgacattcat tgtgcacctg taattatttc attacctata actatattca 120
acctcatatg gtctaatttt acgactttct tcacatcttc ttttcaatca tatcattttt 180
aaatt 185

<210> 31246
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-036-Q1-K1-F8
<400> 31246

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gctatccaaa tagccataca cactactact ccttcatcac tctgtatcta ttttccgagg 120
ctaccagga aattaccag gatcaaatca caagggttct tcgttagcgt ctcatagtga 180
accgtcctca tccttggggg ttacttatta ctttcattga attgataaag aatccgtgtt 240
acaacttttg gagccggtct gttacacact gtgcacctga gatcgagaaa ctgttcgagt 300
cgggtggcaag gtcatgtggc gcaaaagttg tggacgaagg aatcagcgtg catgatggca 360
gccactaaag ccatctgctt tgttcaagtg ttggttttga gctatttctt ctcttgcaact 420
gaaaatttct gggcttgtac agatcgtctg tatagtaaa 459

<210> 31247
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-036-Q1-K1-G6

<400> 31247

aagaagagga ataaccctgg agttgagctg gcactcgaat tctttcatgc attgtgagcg 60
caggatctga tttagtgagg tctctcgggtg agttctcgcg agcagcaagt ttgcaacct 120
gtaattgcct gtacatcaac acaacacaat tttgtcccta accgcaactg gtggagagta 180
gcaaggagcg atttggcgtg aatgaaccaa aatgatccca gtgtagatga catgctataa 240
ctgtgctatc tttgcttggg tgacgcttgg gcgaagtctt cgccacattt gtttaactgg 300
ccatcacctg tttcttggca cccatccggc actcgcacag atctttaata aaagcttgtt 360
tagataaaaa aaaaanaaat atattatttt aataa 395

<210> 31248
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A2

<400> 31248

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaagagaa ataaaaaaaa aaaaaagggc catcccttct ttaggaatcc aaacttactt 120

acccttttctt ccaacaatat aactcttttta tattgtcccc taaattcatt tcactggcct 180
gtt 183

<210> 31249
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B8

<400> 31249

ggagaattct attaatgtctc ccttcatttt cgcttgagaa acaatccaag ataattatgg 60
cgggtatgac attgcataac ttcattagag atagtgtctt acacgataga gattttgatg 120
aagtaggagc taatagccta agtcatgatg tacctgcagg tgagagtagt actagtacat 180
ctgatgagtt agacatgagt gattttcaag atgcaattgc taatgcatta gtgtcgtagt 240
taacttagtg attgtaacag aacttatgat gtaatcaact ccactaatta ttgtgtaaaa 300
aaaaaatata gtataatgaa gatagtataa gcaatatatg aactaaaat 349

<210> 31250
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D2

<400> 31250

actaattatg gagtgcctat tatccattgc ttatttatta caagctaaac ttggtcgtac 60
aatacttaac ttgtatagtt aaacacacca ccgtatacta ctagcctact aacttggacc 120
gtttaccgta aaccgtttta ctagctaaat ccccgatgga tccatcggcg gtgaatttcc 180
cctaccccct gattagtcgt cgtcgcttgc cggatcattc ccgcaggaac aactttaccc 240
gggcaacgtt tttgcaaccc gttaaaatgc tcgcccggac caacgccagg tacatttggg 300
ccattgcttg gttgaatgcc tttaacaata ccccttcggg gtaccccggt tttactccgt 360
aagttt 366

<210> 31251
<211> 365
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E12

<400> 31251

cccacgcgtc cgtaagcatt tggagaaaaa agagactgaa tatatgcgct tgcagagaca 60

caggatggga gttgaagatt ttgaacttct gactattatt gggagagggtg catttgagaga 120

ggtgcgtctt tgtagagaga agacatctaa gaatgtttac gcaatgaaaa aactcaagaa 180

atctgaaatg cttcgtaggg gccaggtaga acatgtcaaa gctgaaagga accttcttgc 240

tgaagttgat agtgcttaca tagttaagct ctattattct ttccaagacg aagagttctt 300

atatctcatc atggaatacc ttcctggcgg ggacatgatg actttactta tgcgcaagga 360

catac 365

<210> 31252

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E4

<400> 31252

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cgatggttta taggtagctt atgtcatagg gtttaggata actggtagca tgtgataacc 120

tttgcatctt tctagtccac gcttctctga tttgccgttg agccgaaacg atgtattcta 180

tgctcgacgt gctataatag attacagcaa ttatgattat ttactttacc tgttcaatat 240

tagtggaataa ggacgaaaag ggtaaactca aaaaaaaaaa aaaatat 287

<210> 31253

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H11

<400> 31253

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tttgtgtgtt agtcctagta ccgagatgta actttgttct ctggaataag tggattaata 120

aagggcactt tcgtttgtgt gtcgtcctga gctgccttgt ccgtagattc ttacaaaactg 180
 ttctgtgcga aagctaccat gatagatatg cgctgcgcgc tcgaattgat tgattctata 240
 gcctgataat tgattgagta tcgccccatgt cgcacaggag aacgataaat ttgttccaaa 300
 ctaaaggggc atgacgactg ggaaatcaaa gatccaagcc aaattccccg ttgtagaacg 360
 a 361

<210> 31254
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B12

<400> 31254

gcgcagacgc gtgggtcggc cttgtacggg ttcacaaaca ttgatgtttt caaataactg 60
 tggttgatcg ggatacttta cggatgaattc atgagattaa atctgcaaag cactttaact 120
 ctgctgttct atcgactttt taattccaac ctacatcaac ttgctcagga aactcaac 178

<210> 31255
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B5

<400> 31255

cggacgcgtg ggcggacgcg tgggcccatt cttgggcgga cgcgtgggaa aaaaaaaggg 60
 gagaatttaa aaaaaaaaaa aaaca 85

<210> 31256
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C1

<400> 31256

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 atgggtcaat aaggcatcaa aacaactgga ccgtgaaaaa agacctgtgc ctagcggggc 120

agaccccata catcacagca tcccatcaca tgctcctcag catccaccat catatggcaa 180
 agctccttat gaagatgaca agagcatagc atctcctggg ctgtccaacc cgataggtcc 240
 tccaccattt ttagatagat actagttcat gcaaaagtag tgagtattta tgcacctatg 300
 ccaatgaata acctctaatt acctacatgt attgggctgg tgtttggttaa catgaagcaa 360
 taactttctc ttatcgaaaa aaaaaattta agat 394

<210> 31257
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F1

<400> 31257

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 acggacgacc agatcgccga gttcaaggaa gcattcagcc tcttcgacaa ggactgcgac 120
 tgctgcatca ccaccaagga acttggaact gtgatgcgct cgttggggca gaaccctact 180
 gaggctgagc ttcaggacat gatcaacgag gttgatgctg atggcaatgg aaccatcgac 240
 ttccctgagt ttctcaacct gatggcacgc aagatgaagg acacagactc tgaggaggag 300
 ctcaaggagg ccttcgcgct gttcgacaag gaccagaacg gcttcactc tgctgctgaa 360
 cttcgacatg tcatgaccaa cctaggtgag aaactga 397

<210> 31258
 <211> 102
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F2

<400> 31258

ttttcatcaa accaacacac tgctaattaa tgtttatgga tggatctatc caacaaaaaa 60
 atcgtctgtt cttacgatga gcagggaatc cccttaccga tc 102

<210> 31259
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F7

<400> 31259

tggagtttta cattaataaaa taaaaaaaaa cttaaaaaaaaa aaaaataaaa aaaaaaaaaa 60
gggggggcaca tccaacatgt tgggtgggta atcattcttg tactacgaca tggttcctat 120
tattttcaag tacttaactt cactcttatt tcctttattt ttacatctgt cgcactgc 178

<210> 31260

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H10

<400> 31260

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atagcatagc aaatgactcc cctaagaatg agcacttaca acttctcgtg atgctataag 120
gacgcactta cagatttttg cgtaaacaac gagcatccta gttgtgtttt ttaccagcag 180
gcgctgctac tcctgtcata cttcaaccat ttgtattcac atggtcttaa tggtttgatg 240
acagctatcc tgttttttgt tcttatctaa aacacagtca cgcttc 286

<210> 31261

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H5

<400> 31261

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ttttttaagg tccaattacg gttgggcaca gtagcagcat aaatagactt attttgctcg 120
acggttttaa atccagtcct gatcgccggc cgagagcaga ggaagcagca tcacaagtcg 180
ggcaggattc ccagggcctt gccgtactcg accatgtcgt cgtatatgtc atccagcgtc 240
ctgtacctga actcgaaacc ttccttcacc agcttcgccg acgacaggca cactctcggc 300
ttttaagccg ctcgccgga agcaggttcg ttttgacgcc gtactgcggg tacttggttcg 360
tcaggaaacg c 371

<210> 31262
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-B3

 <400> 31262

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 ttcttcaacc accacaagaa ggacgaggag cagcccgcg gcgagtacgg gtactccgag 180
 accgaggtgg tcaccgtcac cggcgagggc gactacgaga ggtacaagaa ggaggagaag 240
 gagcacaagc acaagcagca cctcggcgaa gccggcgcca tcggcgtcgg cgccttcgca 300
 ctctacgaga aacacgaggc gaataatgac cccgagcacg cgcacaagca ccagaatcac 360
 ggaggaggtc gctgccgagg ccgccgtcgg ctccggcggc tacttattcc acgagcacca 420
 cgagaagaag aaggaccac 439

<210> 31263
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-039-Q1-K1-C4

 <400> 31263

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 ggcgaggcgg accgcgctga cctccctccc cgcgcgcctg cgcgccctg cgcggccgc 120
 ggcgacgggc ggccggcgcc tcctcagcga cgggaagggg cgcgtgctca gcgaggagga 180
 gcgcgccaag gagagcgtct acatccagaa gatggagagg gagcggcatg agaagctcaa 240
 gaagaggctc gagcaggaga aggccgactc cgacaaggcc aagcccgcg acgccgacaa 300
 gaaggccgaa ggatctacct ag 322

<210> 31264
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D12

<400> 31264

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gaaaaattt 69

<210> 31265

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D4

<400> 31265

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gactgcttgg tatgtgtagt actgtactat cttttctcca tatgcatggt ttgccagcgc 120
gtaatgaatg taatgtcagt actgctaaaa aaaaaaaaaa taaaaaaaaa aaaataaaaa 180
aaaaaaaaat aaaaaaaaaat aa 202

<210> 31266

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F1

<400> 31266

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accatattgc cagcattatt gccacaactc atattccatg atcacatcga atgaccgaaa 180
ttgatgacaa gaactagccc atctcaacaa ctaaaccctt ctttcgctgg tggcacggaa 240
caacaacgac acctttggag caaccactgc atatgcataa agcaacccaa tctctagtag 300

<210> 31267

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F2

<400> 31267

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gtgtgggtgc actggtcac acgatgatct ggagctttga aggcatagcc acctgtgggc 120

agcaactgct gccgtgttgc tagaataaag ttgggtggcg tccatcgatc gatcttttgt 180

gatgggtgtc cctccctgtg tgtttgtgtt tagttccagt cgtttgtgag gaagtcagtt 240

atgtttgagt gagaggggta ctccgctctt cggttaactc tgtacttgtc atgaggagag 300

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tgggttttat cttatca 377

<210> 31268

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G7

<400> 31268

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ccagcagaaa actcggccca aatatcgatc aaagaccaac aatacgcatg tttggatacg 120

atctggtttg gacttacacg ttacactagc caacctgtca atactcagag caatgcatgc 180

atttggtatta cccacacggg acaccaaadc acttggtacc tgaagatggg agatatggat 240

tcggtacagc aacgtaattg agatgtctag gtcaagagca ggtaccacag gatgaggcgc 300

gtggaggatg ctgtgatgag ttcgtgagtg gtctaggccg tcgtctcca gtcaactttg 360

ggttgctgga ccgttgctc cttataatgt aattacttat ttatt 405

<210> 31269

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-H9

<400> 31269

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggaa 55

<210> 31270

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-A9

 <400> 31270

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 ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120
 ggcattggcta tggaagatct ggaagtccaa atcattagct gaatatctag atagttctat 180
 tcacagttgg gactcatgag ctctgttggg accctacagt cttgcttttt acatgagata 240
 aaaaaaattc tcagttaaac tcgtaagggc ggttctggac tttatgagtg gatgatgatg 300
 tttacagaat tacagtctat agcaggtaaa ccttgaacat taatgttttc tgagacacat 360
 atcttttatt tcccttgaca actttgctat aaacc 395

<210> 31271
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C4

 <400> 31271

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 atcgtcagaa cattcttctt taacagaagt cgtagggctt cttagttagg tacatacagt 180
 agcatgcata aagctaggac cgatatgggt atatatagag gatttatcaa aagcattacg 240
 tccaacatat attgaagatc catggccact agagcacaca gcgcacaaag aagcaactta 300
 atcattgttc aagtgggtcca tgtaagcttg atacc 336

<210> 31272
 <211> 91
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-040-Q1-K1-C6

 <400> 31272

cccacgcgtc cgcccacgcg tccgcggact cgtgggaaaa aaaaaaaaaa aaaaaagaag 60
gaaaaggacg accgatacta tacagcatcc a 91

<210> 31273
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D5

<400> 31273

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ctgacacaaa ttgccatagt ggcacggcat tgtaccacgc tgtggccgct gggttcgtgc 120
acgctcagct cagttagttc cgatctagtt ttgtaaattt gcgcgctcaa attagtttgt 180
tttcctggga caaattggag cggaagaaac acacggacat caagatgggt ccgcgaggag 240
catctggagc agcatgtcgt tccagacgct gatggggccg gggaggcacc agtgcacgca 300
gtcgttgtag agcgtcacgt tctcgtgcgg ccagtggccg taccggctcg ggtggccgtc 360
cggccgaagc acca 374

<210> 31274
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E7

<400> 31274

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ctctcaggct ttcagttagt gcttatggcg ttctgttaga acctgtattt gtattcctgc 120
tgggagcctg agttccattc cgtgcaaaga taaatcatgt gtgacgacac gtttgcaaca 180
gcatttatgc ttaaactgca ttaatgatga tgcgttgagc tctgtaatgc ctagtttttc 240
tggcgacaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaag 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 340

<210> 31275
<211> 372
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G10

<400> 31275

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ggtttcagat aggatcaatt gatctatatg ggaaaacccat atgaactccc cccggagctg 120

tgtttcactt ttcggctttc tgaactgctc ggtctcacga gcctgtgtag tatcataaat 180

tcataatatt gtaatgcgag catttactgt ggacgcaacg ctctcttcag tatgaataga 240

tactgaataa ttaagagcat gatatatatt gtttgcgcgcg gcgattgagt tctgaaatat 300

aagtgaagtc cctcgacatg atcaaaaaan aaaaaaaaaa aaaaatagaa gaaaaaaatt 360

taaaaaagaa ta 372

<210> 31276

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G7

<400> 31276

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gccaggaacc tctttccaca ctccgcgct cctgcctctg tctcgagact cgagaatggg 120

tgtgtaggcg ggcgaggag ggagggaggc gagaggggga gctagggttt ttcgccagcc 180

gccttctgtt atcctcaggc tctgaacccc ctctgtccg gtgcgcggcg gattagactc 240

cgatggggaa gtctccggcg aagtggatca agtccgtgct ctctgtgaag aagtcgtcgt 300

ccaggtccgg ctacaccaag gccaaagatt tatcgaaagg tgcgagtaac aaaggagctg 360

ctgctgcggc gaaagagccc gtgttctctg agagctcccc agtgatctcg gagcctgtac 420

ttgttagcgc cc 432

<210> 31277

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G8

<400> 31277

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gcccactga gagggcctgg ccagcggttt acttctctga tgatctctca ccaattacag 120
tcaccatcaa agaggaaaga aggaacttcc ttcattttat aactcgtctt tgtgcagttc 180
ttggtggcac atttgccatg acaggaatgc ttgaccgatg gatgtaccgg cttgtcgagt 240
cagtcaccaa ctgaagacc agaagtgtac tgcggtaact gcacaattca tgttaggcgg 300
aaaacagctg gtaccgtggc taatgaagcc aatagacgga cttttgctcc caagctaacg 360
gatgaagcaa tgctgatttg catgttntat tttcttcgta catgactaac tttatcatca 420
gttatgttaa attgacac 438

<210> 31278

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C4

<400> 31278

cccacgcgtt cgcccactcg tccgcccacc ttcogtttca cgcgtccgcc cacgcgtccg 60
tgcaaactcat gggatgcaaa ttagtaacag ataatttatt gactgctcta tcaaagagct 120
gcctgcaatt ggtagaactt ggagctgcgg gatgtaacag cataacagat gctggtatat 180
ctgctctggc tgatggctgt catcacataa aatcactaga cataagcaaa tgcatagaatt 240
tcctaactga agagggaggg agagagagag agagaatgtt cctgtttatg tagagatgga 300
gtccaaaatt tgtgtgcctg atgagttctt ccccatatga tattaactga aatagtatat 360
caattgaatg tattacattt taagttttta ttcaatcgat ctttaagagat taaaaataa 419

<210> 31279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D2

<400> 31279

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 tgcagaccac cactcattat ctatatgacc ctgattaact tctgacattc gcgtttgaca 120
 cgagtgggtc aatgccaaca aatacaatca caaaggaaag gaaaaagcac gagactgttg 180
 tcctgggtga gcttgatcaa agaacaagac ggctgagttc actcaagatg gatggatagt 240
 ttgtaaaata caagttcttg aaagctgtag tcttggccta ttctgcacct ggttccacag 300
 cgtatgcttc actgagcgaa aaatcattgg tctaccgaat actgcgaga 349

<210> 31280
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D8

<400> 31280

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 cgctcaccat gtacccgtcc gaggaccgct ccgagtacga cccgcgcacc ggctgcctca 180
 agaagtacaa cagcgtcgcg ctctaccaca acgccatgct ccgcgtcgcg ctcgaccgcc 240
 tgcagcgccg ccgcccggag tcccgcgtcg tctacgccga ctactacacg ccctacatac 300
 agttcgcgcg cacaccgcac ctctacggct acaagcgcgg cgctctgcgg gcttgctgcg 360
 gcggcggcgg gccgtacaac tacaacgtga gcgcgtcgtg cgggctcccc 410

<210> 31281
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E12

<400> 31281

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 ctctttatta tcaaagtgtg gctgcgctgg cattccactt gttagcccgt ttatagtgtt 120
 acctaaattc aatt 134

<210> 31282



<211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-G6

 <400> 31282

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 aagaaacaac tgtcgctatg caaccacta caaggttcca gccagcact ttactgaaat 120
 aaagtttgaa aatatactgt atattggaca ctgccatcac catcctcacc gtcgttacia 180
 ccagcagcat ctgctaattc ttcttgatt tcagttcttc aatccgttcc ttctgtggcct 240
 tcaaagcatc gccgaatttg cttatgattt cttcgacttc attgggagtc atgatcaacg 300
 ggg 303

<210> 31283
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-042-Q1-K1-G7

 <400> 31283

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 caaaacacga aacaactgac gaatagcgag ccgctaccag gtagcagccc a 111

<210> 31284
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-043-Q1-K1-B6

 <400> 31284

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 aattttatta catctgctac acctcacttg ggctcaaggt tgaataagca acttcccttc 120
 ctttttggtg tcccactttt ggagaaaact gctgcaggaa cagcacattt tatagttgga 180
 agaactggta aacatctatt cttacagac aacgatgatg gtaagactgc tcttctccta 240
 cgaatgggtg aagattgtta ctgactgtta ttcattgtct ctatgcgctg gttcaagcgt 300

cgtgttgccct atgctaattgt aacatatgat ca

332

<210> 31285

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B9

<400> 31285

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tagaagagaa aataagagta gttctctctg ttctaggatt gctaccttca agttatcatg 120
aggcttttgca acagctgcgg gataaggcac tgagacgagc ttccatcacc gaggagcttg 180
tggtgcagaa gattgaagag aggactgcag caaggaaggc aaagcagtat gaaaaatccg 240
acgagatccg gaaagaactg gctgccatag gaattgccct catggatggc cccgacggaa 300
ccacttggag accatctttg ccaattttag aggaagcggg ggttgcgaaa acatgatctg 360
tgcaagggat tccaattcga cccatggaca ccagttctag tcgtgtatca tggatttgct 420
atatgtgacg aacttg 436

<210> 31286

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C10

<400> 31286

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gttttttttt taaacgaagg gtgacaaaaa aataattcta atcttattca gttcaagcat 120
ttatttaata cccaattgc caaatgtctt acaaaagcaa tagcacctac aagatatcgt 180
aacacattgg aacgctccgg catttggaat agcaacttta caatcggtag cgcaacgctt 240
gcaacatttc gtgttttgcc caaaagatgc ataaaaaaaa aaaaaggggcg g 291

<210> 31287

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D9

<400> 31287

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ttttccctga caaacgtgtc atcaattaat ttgtaaaaaa aatgatagat taagcggcga 120
tcggcatgct ctgccgtagc gccgactcga cacacgagac agcgtgtgag cagaagaccg 180
aggtgagatt tcgtacacac tcatcccaaa cggctcgaat cagaagggga atcgtggcg 240
cgtaggctat gaatactgtg agccaaagag atttgatatt ttattgctag ctgcagatca 300
gagaacctga agtatattga tttcataggt ggttcttgct ggatcatggt aagctccatc 360
tcttataata gcttgaactt atacatattt ggtacttggt ttaaatttat aatgcacaga 420
ttattgatat tcgtatagat tgag 444

<210> 31288

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H11

<400> 31288

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ggttcagcag ggcaggccaa ttccataagg tggtaggcat ggtgaagctc gccgagaggc 180
tcgacgtgcc cgtgaacacg cttttccaca acgctgttct tggcgcgtgc gctagagcgg 240
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atgcttcgac gtactctatc ttggtggagg cttatcgcaa ggaggggaatg accgacaaga 360
tctatgctct gcattaggag aaccgggctc tggtttcagc ttgatttgct atggtttgaa 420
tgaccagtg acttgagtca cg 442

<210> 31289

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H6

<400> 31289

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aagaccagaa tgaagtgggt gggatgccct cacgacaaga ggaggaggca gcaattaaga 120

aaaagtatgg aggaatattg ccagaaaaga ctccacttat atctaaggat catgaacgtg 180

cttactttga ttctgctgat tgggctctag gaaagcaagg tg 222

<210> 31290

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-B2

<400> 31290

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aggtttgata tgggtgtgta tactgtgaac gtgggctagc ctatgatcta tgtctgcagt 120

ctgcaccata tgttgaactg ctggactaca acagctcgga tcaaaagccg aatgtacaaa 180

attaaccaag aac 193

<210> 31291

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B4

<400> 31291

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gtcgtggtgg tgttcgactt cgacaagact atcatcgcag tcgacagcga caactgggtc 120

gtggacagcc tcggcttcac cgagccgttc gagcgcctgc tgcccaccat gctctggaac 180

acgctcatgg acaccatgat gggggagctg cacgcgcacg gcaggaccct ggacgacgtc 240

cccgaggcgc tccgtgcagc gcccgtcgtc gcgggcgttc tcggcagcat caatgc 296

<210> 31292

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B8

<400> 31292

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aagtgggtgg agaggtgcta ttttagccat gaagcgtgct ttggaccagt caggtcttca 120
tgtaaatgaa attggttatg tgaatgcgca tgccacgtcg actcctcttg gtgatgctgt 180
ggaggcgaac gcgatcaa atgtatttgg cgaccacgca gcatccgggtg atcttgcaat 240
atcctcaaca aagggagcaa ttgggtcatct gctaggggca gctggatcag tggaagcaat 300
cttcactgtg ctagcaattc accacggact cgctccgtct actcttaacc tggagcggcc 360
ggacccgctg ttcgaagggg cattcacgcc actagctgcg cccaagaaga tgtc 414

<210> 31293

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E7

<400> 31293

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gaagattgggt gtgcaaatca ttcagaatgc tttgaagaca cctgtacaca ccattgcctc 120
caatgctggg gtggagggag cagtagttgt gggcaagctt ttggagctag gaaacactga 180
ccttggttat gatgctgcta aagacgaata cgttgacatg gtgaaggctg gtatcattga 240
tccgctaaag gtcatacaga ctgcattgggt ggatgctgct agtgtgtcgt ccctgatgac 300
caccacggaa tccataattg tagagatccc caaggaagaa gcaccggctc cagcaatggg 360
tggcatgggt ggaatggatt actaagtgtt aagcaca 397

<210> 31294

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F7

<400> 31294

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cgagagggcc cgctccccc ggtctacggc ggctacggcc agccaccgcc acccgacccg 120
 tacggccgcg cgcccgtcga ccccgatccg tacggtcgac ctccgcccc gtcgcgtac 180
 ggtggggccg gggacgccta cggccacagc ggccaaggct acgcgcccc gccggcctac 240
 ggcgcggggg gcgggtacgg caacgtcgtc cacgtcgcgc ccgaagtgg cgacgagagg 300
 cttacta 308

<210> 31295
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H3

<400> 31295
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 gcactgttat cagatcctga atttaagcgc tacgtggagc tctatgcaaa ggatgaaaat 120
 tccttctca aagattattc tgaatcacac aagaaactct ctgaacttgg cttcacgcct 180
 tgcaacacaa caccattcaa atcagatctt tcaaccggcg gcgtgcttgc acagaatgcc 240
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<210> 31296
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-045-Q1-K1-A10

<400> 31296
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 agtactgtaa cactagagac aactgttgct aacttgatat acagaagagt tccactgttg 120
 gagcagcaag agtgcagtaa ttcagattct gtgatttgac tcaataattg acatgattgc 180
 attattgaga ttataacttg gagctgatta tattcggtat ctatgataga aacctccaaa 240
 tatgataagt ttccctgtga aaccatgcta ttttagccac gctggagttg gttaaagcac 300
 cagttaacaa cttcctttta tgcataaaac aggagatgaa cctggaggca cctncagcat 360

tgggaggtgg atgtgcagcc cccatgctag gagattcgat ggaaaaggct ccaagctcac 420
 cttggatgcc tntctccatg 440

<210> 31297
 <211> 91
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A2

<400> 31297

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 ggagaataaa aaaaaaaca gaagagacaa a 91

<210> 31298
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A4

<400> 31298

aaaaaaaaa aaaaaataaa aaaaaaattt aaatttacca aaaaaaaaaa aaaaaaaaaa 60
 gggaaagaaa aaaaaa 76

<210> 31299
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B12

<400> 31299

aataaaaaaa tcactttaaa aattttaata ataaaagcaa aacaaaaaaaaa aaacaggaaa 60
 ggaaaactga 70

<210> 31300
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B2

<400> 31300

ttctagatcg cgagcgtacg tccgagattg atttgcctggc tcagaaggta gcgatcagga 60

atgttcttgt actaaagcga tcgtctgtat gggggatcag gaacgtactt ggaacaaccc 120

aaggtttggg gacgatgaca atgtaaataa tagaggtggc tttggacgcy gaaatcaagg 180

cagagggaga gggaggagtt ttgggggtgg tgggtggatca tcatggaatg aaggcaacag 240

aaacggtgaa ttacgtgggg taaggtc 267

<210> 31301

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F7

<400> 31301

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aacttcgacc tcgactcggc ctacagtgcc tttttggctg cgctgccgc cgctgggtctg 120

taaccgggcy tggacctggg tcgttcttta cttctattac agtactatag atatctgtaa 180

tttcgggtact gctattttat tgtaataaag aaagttctgt tttctttata tactgtaaat 240

atgtttatcg catgatatac attcacatga caacgcttgc aaatggcctg tagcctgttt 300

acttgggtaa aaaaaaatat ggggtataagg tgaaatgata agaagatagg tagtggtagg 360

tga 363

<210> 31302

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H10

<400> 31302

aaaaaaaaa aaaaataaca aattgaaata aaaaaacaaa aaaaaaaaaa aacagacaag 60

gggcaaccaa agaaaggagc gcgcaagaaa acacacgcac gcaggcaaca aaagcagcgc 120

gaacagaggg agaccaaaaa agcaacaagc cgggccaacg attgacagcg gcggc 175

<210> 31303

<211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-045-Q1-K1-H7

 <400> 31303

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 tcgtcttctt cgttgccatt gccacgtgcg tctgccgctc accattcccc atcctgacga 180
 tggctgcgga cgcggacaac ggcaccagcc acctgagctt cttcatgcac gacatcacgt 240
 aaggcgccag cccgaccgaa gtgaaggtga tcaaggggcc cggcgcgggg tccacgctga 300
 ccgcgcgggc gctgggcatg acgttcggcg acaccatggt gatcgacgac ccgctgacgg 360
 aggaggcgtc gcccgctac gccgagctgg gccgcatgca tggcttctac atgctggcgt 420
 accagaccgg ggcggtgc 438

<210> 31304
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-A7

 <400> 31304

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 ggaa 64

<210> 31305
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-046-Q1-K1-C10

 <400> 31305

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 gggatatgtg gttgctgtaa cactgctaaa ctaagttact cttgtgtttg ctaaggatta 120
 agttctgtat ttgttgctat aaaaggtgca tactttgaat gactggttca tcaaaaaaaaa 180

aaataaaaaa tggaatgaaa ataataaatt aaaaa 215

<210> 31306

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D2

<400> 31306

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agctggacgt ccttagctct ccacttactg tactattcta catctgataa ttccccgattg 120

ctaagctcca tcgctgcagc tactccgacc actttgaggg cactctctct tacattacgt 180

gtgattcctc gatgaccagt aagaccaggt tatatctcca ccatgg 226

<210> 31307

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G5

<400> 31307

aaaaaaaaa aaaaaaaaa aaaattaaac aaaaaaaaa aaaaaaaaa aaaaaggaga 60

agggaaaaga aaaaggagta agaataaaga aaatac 96

<210> 31308

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A12

<400> 31308

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agacatcgaa atgacgcttt gtgattctta agctcatcca tttcttgtca gctgcacgga 120

tgacaaacta agttctctat tgtgttgacg ggtgcagttg gatgactggg tcctgtgccg 180

catctacaac aagaaggcg gcgggctgga gaaggcgccg gcggccggcg gcgaccacaa 240

gcctgtgttc gccacggcg cggtgagctc cccgccggag cagaagccgt tcgtggcggc 300

ggcggggcggg ctgcccccg cgttccccgga acttgccggcg tactacgacc ggccgtcgga 360
 ctcgatgccg cggctgcacg cggactactc cagctgctcg gagcaggtgc tgtccccgga 420
 gcagctggcg tgcg 434

<210> 31309

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A8

<400> 31309

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 gacccttctg ccggcgatgc gtcctggcc ttaactggcc gggtcgtgcc tccggcgccg 120
 ttactttgaa gaaattagag tgctcaaage aagccatcgc tctggatctt tagcatggga 180
 tatcatcata ggattccggt ctctatcgtg ttggccttcg ggatctggtt cggaac 236

<210> 31310

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C12

<400> 31310

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 gaagaagtgt atcaaaagtc aagaatatgc agcagagcat ggtttgctg ttctgaaaaa 120
 cgtactcctt cccaagacaa agggtttcaa ttgctgtttg caagtgctga ggagtaccat 180
 agatgctgtg tacgacatca cgatcgccca caaacaccgg ccgccgacat ttctggacaa 240
 cgtctacggc gtgggtcctt cggaagtcca catccacatc agcagcatcc aggtctccga 300
 cataccggcg tccgaagacg gggtggtggt ctggctggtg gaacggttca ggctcaagga 360
 cgagctgctg tcgggcttct tcgcgctggg ccactttccc gacgaaagga aaaggacccg 420
 agggg 425

<210> 31311

<211> 66

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-D6
 <400> 31311
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 cactac 66

<210> 31312
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-G3
 <400> 31312
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 tcctaggggt gagcgctcgg ctgcccgcgc ttgccgtacc gatgcctgtg ttgtcccaac 120
 ttgccagttc gatgcctgta cccgtggctt aattctctat catcggagct acttatgtgg 180
 ttctattact agatgctgac ttactttcaa cttgtgctgt tgtaccttca tatttggact 240
 ttttaagcct tgtgtcggac gcctttggca ttgaaatatg agagatcttg 290

<210> 31313
 <211> 54
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-G6
 <400> 31313
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<210> 31314
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-047-Q1-K1-H11
 <400> 31314
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tgccaggata ggtgagcgat tgagcccttg ggtatcagtc gggtgcttgg ctatgggaat 120
atccactatt ttcttctaag gccgaagtgt taatctccac atatttagtc taggacgcag 180
caccttgttt cacttgtaga gaaaaaaaaa ctatcgtaag cattttgctt cagtttttaa 240
tggaatgggc actgtaagat ctgtatctgc actgagattt ctgagattaa caaaaatgtt 300
ttctcataag atttctgaga aaaaaaacia ctacata 337

<210> 31315
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3067-047-Q1-K1-H5

<400> 31315

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aattgacctt ttcattttca tataaaatat tggcatattc acaatatact gaattgtgaa 180
cttgtcaagg attcaagggc atgcaattct tgaacgtttt agtggaatat gaaagtctca 240
tctggtcata caatatgtga gtctgagatg attcatattt tatgccactt ttttacattt 300
tcaaagtgtc ctgttggtgt gattgggtcac ctatatcctg ctgattttgc acacatcang 360
agttccaagt aggtattttac accattcttc ctactagtaa gttttctata atctgacaaa 420
tttcgtggtg cctatgctaa tg 442

<210> 31316
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A12

<400> 31316

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gtacgcccac agccccaaac ccacgcccac gacgtacact cccaccccga cgccccccaa 120
gccgacgcca cccacataca ctcccgaacc tacgcccac aaaccacac caaaaccac 180
tcccactaat acgacgtaca ccccgaccca caaggctccg acacctaagc cgaccccacc 240

aacgtacact ccaaacccca aacgctagac gcccaaaccg accccagcta cttacacccc 300
 ttgcegaag ccttcgacac ctaatccgac caactctacg tacactccaa accctaagcc 360
 acctgatacc aagcccttca cgcccaatcc gaccacgtca acgtacaccc attcgccaaa 420
 gcctacgaca ccc 433

<210> 31317
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-048-Q1-K1-D5

 <400> 31317

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 ggaccaaggt ccagcgtatt atgaccacgc ccatcaacct catcttcggg ttcctacaga 120
 gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 180
 ttatcggatt cgatgagtac atgaacttgg tcctcgaaga cgctgaggaa atcaacgtca 240
 agaaaaacac taggaaatca ctgggcccga tactcctcaa aggtgacaat ataactttga 300
 tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttgggtg ctgcgttcga 360
 ttatctgtga cacaatgtac tccattcatg cgtncagact taaatgatgt atcatggtca 420
 tg 422

<210> 31318
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-048-Q1-K1-E7

 <400> 31318

aaaaaaaaaa aaaaaaaaaa aaataaaaat taaaaaaaaa aaaaaaaaaa aaaaaggaaa 60
 agaaaaa 66

<210> 31319
 <211> 447
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G11

<400> 31319

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gttgggtctgg atcagttcat cacgaagaac gctacactca ctaatgagaa ggaggttgat 120

gcatgccccaa tcagagcaat gaagttctct gtctccctg ttgtgctgt tgetgttcag 180

tgcaagggtg cttccgacct tccaagcta gtagaagggt tgaagcgtct gggaagtc 240

gacatctatgg ttctgtgtac aatggaagaa tctggtgagc atatcattgc tggagctggt 300

gagcttcac ttgagatttg cctgaaggat ctgcaagagg acttcatggg aggtgctgaa 360

attattgttt ctctcctgt tgtgtccttc cgtgaaaccg ttcttgagaa gtctgcccgc 420

actgtcatga gcaagtcacc taacaag 447

<210> 31320

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G4

<400> 31320

tttaacttat ttaagctgga ttatataatc tagagggtaa acaaacaagg caagtttatg 60

atgtggttct attagtcatt gaacacattt ttacagatag acagtgaatt aagcaaagag 120

atagaacaat ggaatgacat gctgaggact gaagtagtaa agttgtgtca agacaacaat 180

tttcaaacag gtttttttga aggactgat aatagcactg ttgttgatgc ttacgagttg 240

aaggtaaatac taaatgtaca ctctgtacta actacgtgta cacattaatt gaacctatcg 300

agcaattctg ttgttaggtt cgacttgagc acattctcga gaggatatct ttgatctctg 360

atgctgcaag tactgagcgt ccatcacaga tcacagatta cctgtatatt ggtgggtgctc 420

ttgctgctcg gtcaacacac aacttaa 448

<210> 31321

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H5

<400> 31321

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gaaacagagt tcttcagttt gctatctctc tctgcatgtt tggcgctcagt ctttgtgctc 120
atgtacgtgt gtctacatgc atgttggttg atccgattgc gtctgctgct accatatatt 180
aattggacca cgatgatatg atttgatact atatatatat actaaaaccg gacttattat 240
tatgaaaata caat 254

<210> 31322

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A12

<400> 31322

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tgccggggta aaatgccac gagtttactt ttgcagtgag tatgtcaatc taagctggca 120
gatacttgat ttgtaatagt ctttgcgtgt gtttcgctct tcatgtggca tgttcagttt 180
gatctatagt tgtatctttc actttcacac tgaaattgaa aagtaaagcg caaatttcct 240
tgtaaaaaaa atgaacagaa aaaaaaagag aag 273

<210> 31323

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A3

<400> 31323

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cggcgtctcc gtcggcgtgc ccatcagccc caccgtcgac tgcaccaaga tcaactgatc 120
gatggaacca tagtggaggt agctcgctcg ttggatggca gcgtacgtgg ccatcagcag 180
catgcagtcg tcgtcgtagc agagatgtcc tagctacgtg tgtgtcatgc atcagactgg 240
cacataataa agaagtagat catgcacca ctagtgatca cttcgtctag tgtccctccg 300

ttcaatgtcg tcgtcgtcgt cgtgtacctt acgtgacatg cttgagcacg tacgctagca 360
gagcagcacc ttaatgtcct tgggtttgct ttgctggctc tctgggttcg tcttgggggtg 420
cttttaatct ggca 434

<210> 31324

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-A5

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gctattttccg tcggtgtgcc catcatcccc accagcgact gcaccaagat caactgatcg 120
atggaaccat agtggaggta gctcgctcgt tggatggcag cgtacgtggc catcagcagc 180
atgcagtcgt cgtcgtagca gagatgtcct agctacgtgt gtgtcatgca tcagactggc 240
acataataaa gaagtagatc atgcaccac tagtgatcac ttcgtctagt gtccctccgt 300
tcaatgtcgt cgtcgtcgtc gtgtacctta cgtgacatgc tgtagcacgt acgctagcag 360
agcagcacct caatgtcctt ggggtttgctt tgctggctct ctgttttcgt cttgtgttgc 420
ttttaatctg gcacagggtt ctaaattata ataatgaa 458

<210> 31325

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B12

<400> 31325

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ggagaggaaa tgcgaagatg gcgatgaccg tcgaagtgtc tgctgcactc gcgttcatgt 120
tctccacgag tattctactg cagatactgg catgcgcttt gtacaacaac tgggtggccca 180
tgtagcagc tctcatgtac gtccttgtac caatgccatg cctgtttttt ggtggtggat 240
ccacacactt cttgaccagc agagaagggtg gaggggtggat taatgctgca aaattcttga 300
ctgggtgcgtc ggccatggga agccttgcta ttccagcaat tctgaggcat gctggcttaa 360

tcgagaccgg ggccatgttc atcgagttca cgttcttctt catcctttga tgcacagtgc 420
tgtgcttcca taaggcgact ctggatga 448

<210> 31326
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A1

<400> 31326

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aagggcgcg c tttccaagta ctcatgatca ttatggtggt cgttgtaggg atctttcaac 120
ccgaattctg tcacgaatct ccgtcgggac tgtttttcac aaaaccttcg tagaccattt 180
ggacactttg ttcgagttcc agatttatat cttccaagag attattacac tggacgcaac 240
acatgcctac aagattattg ttgaagacca cgatt 275

<210> 31327
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B10

<400> 31327

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gggtaattat tgaaaggtca gagaacttct acagtgcctt t 101

<210> 31328
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D7

<400> 31328

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gcttctgctc gcttgcgtcg tctgcgcccc ctccctttga tgggtgataaa aatacttttg 120
tttacttcgg ccgctgctt gtaactaatc aacatgtgga tcaccatgcc gcatgcatgt 180

cagtctgtcg catcggaac gttagctatg taatgctgta ctggctgtcg attcgtctct 240
 ctgaatgagt gtttggcagc ataaaaacat gaacat 276

<210> 31329
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D8

<400> 31329

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 ttactttgcc cgactgcttg taactaatca acatgtggat caccatgccg catgcatgtc 180
 agtctgtcgc atcagaaacg ttcgctatgt aatgctgtac tggacgacca ttcgtctctc 240
 tgaatgaatg ttcggcacca tactaaaata tac 273

<210> 31330
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F9

<400> 31330

cccacgcgtc cggtaaaaaa aaaaaataa ttaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
 aag 63

<210> 31331
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3067-050-Q1-K1-G9

<400> 31331

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cagtacttta tgctgtggat ccagttctgc atactttgac ctttgagcat gtggatggct 180
 tgtctgtcaa ggatatactt cttagggttg gttcagatgg ggtcaatgag gaacgcctga 240
 atgatattgc cacacaaata ggaaatgccca ttggcaaaca acatgatgga ggccttggtc 300
 atggtgattt gaccacgtca aacatgataa ttaagaacag taacaatcaa ttggttctta 360
 ttgattttgg gctgagtttc acttcgacaa ttcccagagga caaagcggtg gacctatatg 420
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<210> 31332

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H11

<400> 31332

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 gtgccgcttc cttttacttg attttgtaaa ccggagactg taaatgtgct tgaaccgtgc 180
 ttttagaccc atgcctgaaa tcttgcattc aataagcgtc tttgaagtg 229

<210> 31333

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B2

<400> 31333

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 gtcgctaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggccccccaa aaaaaagaac 120
 acaaacatac atacacgtcc atgcaacacc ataactctac aataaagcca cctaaataaa 180
 att 183

<210> 31334

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C1

<400> 31334

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ggagctgttg taaatgacat caatccatac aacaaggata tgttcctga ttttttgaga 120
tggctaccgg agagaaacct ttcaagcgat gatcggacaa tgcgcctaaa agaaggatac 180
atcaaggaag gtatcactgt gagtgtgatg ggggttggtcc aaaagaatga caatgttctg 240
atgattgttc cttcatcaaa gcccatctca actggttgta agtgggcca atgcaatttc 300
ccaaccaacc ttaaagggtc tatttta 327

<210> 31335

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F6

<400> 31335

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ctcatatcct cgtcgagggc gagggcgggtg gcctacctcg acgagccctc cgtgctgccc 120
tgcgccggtg acgacgcctt cggccctgac gccgtcggcg acctcgcaact cgtctctgaa 180
gcttatgaat ctacatctca taagctgggt ttcatlcagc aaaggtctcc agttactaca 240
ggaatgatgg ttcatcttgc aaaaaatgtt gctgatttca taagcagcat cgggaagaac 300
catattgtca ttatatcaag tttagattct ggaaagagga gagtgattga tgcattcagt 360
gacatgcagg tgtattacct ttcaagttgc aatgaagatg gttctgatcc agaatatgag 420
aaattggggt ggaaaaagct tg 442

<210> 31336

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-H4

<400> 31336

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agctgcccac cttcatccgt caaccatggc gaccanac agcaagaaga agaagttcgt 120
cagcgacggg gttttctacg ccgagctcaa tgagatgctt accccggaac ttgccgagga 180
tggtactctt ggcgtggagg tgcgcgtcac gcccatgcgc acggagatca ttattcgcgc 240
c 241

<210> 31337
<211> 89
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3067-052-Q1-K1-A8
<400> 31337

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tacgccgaag aggaaggagc actttgtat 89

<210> 31338
<211> 554
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3067-052-Q1-K1-C12
<400> 31338

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cgagagaagt ggatccagat cgagaccgcc aagatcatcc gggagcgcct ccgctgggtgc 120
taccgcatcg agggcatcaa ccaccaccag aagtgccgcc acctcgtcga ccaataccta 180
gaggctaccc gcggcgtggg ttggggcaag gatgcccgcc cgcctgaact ccacgagccc 240
aagaagaccg tcaaggcgga gtageggcgc tgctgccttg cttctcgtgc tgctgttcct 300
ggattggaga ggtgatctga cccttcatt gagttgaatg aagtagcctg gaactgtggt 360
agttcgtctt ttacatctta agctgctgat agacttcaaa taaaatcttg tccaagaaaa 420
cattctgtga gcgtacatgt tgctcgtcag ctgtgtaatt gagcaaatcg tcagattgaa 480
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aaaaaaaaann naaa 554

<210> 31339
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-C2

 <400> 31339

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 ccatcgcgca ttaaaaacgg ctcccgaagg caccctgcgt gatgcgtgcc ggctgtgttc 120
 aacctagcag cgcgtttctt aattccacgg cgctgaacgg ctgctaattct tcgaccttct 180
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<210> 31340
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-052-Q1-K1-F3

 <400> 31340

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 ggagtgaaga tcatccatgg cggacgatca atttgtgcc tcatattca ctggcgcatt 120
 caaactccac acaagccgtg ccagactaag ttagatagat atatcagatg agctgcctga 180
 ttcacagaat ataattggct taacatagga aaggaggtgc tgagccacgc tagctagctc 240
 atccttttct cctaaaaaaaa aaaaaaat taa 273

<210> 31341
 <211> 579
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3067-052-Q1-K1-F9

 <400> 31341

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 tggccatatt ttgaatggtg acattaggca aactgaaatg aagccctcaa ctggcacatc 180

agcagcaatt acctcagtag ctaatgttcc tgacttgggc gacccaaaagg agtttgaaca 240
 tggagaaaaa ctgcaaagaa taccaaaaca gaaatatcag ccttcccata accagcagcc 300
 ccaagacgat cagcagtggc tagtcacttg tatttcacaa tatcttggat tttctgggag 360
 caaacctgtt gcagctctcc ttatatacca atgtcttctc cattggaaat catttgaagc 420
 catgaagacg ggtgtctttg atagcatttt gcatgctata aactcagcca cagaggttca 480
 aaatgacatg agaacattgg cgtattgggtt gttcaactta tctacattaa cagtttttnt 540
 tcaacgggtca ttcaaaaacta ctaggaccac aatcttaac 579

<210> 31342
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-053-Q1-K1-A11
 <400> 31342

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 gccaatccaa ttgcaagatg ctatgacgct ctttaagatca gttctcatat tctataagca 180
 tttatctcga gtcagcaatt aggaactgtg atgggttttta ggtcaccggg aagggttgtg 240
 agaagatctt ggactgggag agaagtgcac agaagcaagt taaaatcctg ttgaagcccg 300
 ctcatgtcat cctgcaacgt ctattcaatt ttttcttatt ccattttgtg acgttatgac 360
 taagcatgcc aactggcatc cttagcccac ttcttatcga gcttgggtgc ataccacatg 420
 ta 422

<210> 31343
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-053-Q1-K1-B8
 <400> 31343

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 atcgcaactt gggaacacat acatgcaaac atcctacctc tcctatactg tcacctaaat 120

tcaactcact tgccgtcacc taacaacttc ttaactgcc aaaaaccttaa cc 172

<210> 31344

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C11

<400> 31344

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gagtgtcaaa acagtagtaa aacatcacaa gtctaaaaac gacgtgttct ccagcgacaa 120

cagtgggctg gactggacac aatcggcagg gaaatgtacg tcgaaatcaa cagaaggcac 180

ccgagcttta tttttctgtg atggaaatga tgaacgtctc aggaaatagt ttgccagaag 240

cccagaactg tgtgctctag ggctcgacca ccatgctctc cgcttccttc ttgatggact 300

ggaacagcac cgatgagagg tagcgctcgc cgaagctcgg gaacacgtac tcaaatagct 360

ttccggcggtt ttc 373

<210> 31345

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C2

<400> 31345

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tgatagagta tttctttttt ttactgatgt cctgagtgga gtttccaaaa ctctctaaat 120

accaagtttc caaacagtgt catatgacaa ctgactttgc ttttttagcgt ttttcaagat 180

taaagttttc cattcttttc tatttacctt ttacatgcgg ttattt 226

<210> 31346

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D12

<400> 31346

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aggataaaat ataaaaattc acaatcttac 120
 atacacttac atactacttc ataaacacta ctatagtatc acctaaattt aaattcactg 180
 tctctaata 188

<210> 31347
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-053-Q1-K1-F4
 <400> 31347

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 atctccatgc tctcctgtta gccactcggc agagtgagga ttactaggta ggggtggcatg 180
 tcatgtgctc caccctccac tggtagaggt caatcaacta aagctacccc cggattgatg 240
 aggaacatcc cgcgcgatta gtggggcatg tcattaaaaa aaaaaaatat aaattaaaa 299

<210> 31348
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-053-Q1-K1-G5
 <400> 31348

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 gctgcctctc aacaacattc acatctacta cctacctggc tgctttgaga attacagggc 180
 ctctactatc tgctgctgtg ttaaactctac ctcttggtt ctccaataat tgctgctgtt 240
 ctgtactctt ctcttatgtt ctgtctgtca gtgtgtatga gatgatgctc atcttatgtt 300
 ataaggctta atcatgtgct tagttgtact ttctgtcttg taatgttatc agttatatga 360
 ataataagtg ttatgt 376

<210> 31349
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-053-Q1-K1-G7

 <400> 31349

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 ctctgctcc agaagcagct caaggatctt gcgaagaacc ccgtggatgg gttctccgcc 180
 gggctttag acgacagcaa catcttcgag tggcagggtca ccatcatcgg accgcctgac 240
 accctatatg atggaggcta cttcaatgca ataatgacct tccccagaa ctatcccaac 300
 agcccgccat cagtaagatt tacttctgag aattggcatc cgaatggtta tctgatgga 360
 cgtgtttgca tttctattct tcatccacct ggtgaagatc ccaatggtta tgagcttgca 420
 agcgaacgat tgacaccagt gcacac 446

<210> 31350
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-054-Q1-K1-B7

 <400> 31350

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 tcatgtacgc caagcgcgcg ttcgtgcact ggtacgtcgg cgagggcatg gaggaggggg 120
 agttctccga ggcacgcgag gacctggccg ccctggagaa ggactacgag gaggtcgccg 180
 cagagggcgg cagtgatgac ggcgacgagg aggaggaata ctgatctgct tgcataatc 240
 tgtttggctg tcgagccagg ttgtggtggt gaaaaacctt tgtttgtgtc ctgggtaatg 300
 tttgggtggt tccttccatc atcacttgct gaactgctct agtatttgca tttgtaattg 360
 aagtctgtcg ctttaagcac tcttggttct aaagatctct gtgcttttgg ggggt 415

<210> 31351
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F11

<400> 31351

cggacgcgtg ggttgttttg tttttttttg tctgtttctt gctgaaaaat aagcaaaaaa 60

aggag 65

<210> 31352

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F2

<400> 31352

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agctgctcat ctctcaagt ttgtgctgtg atgccagttt atcccttcta gtctattaca 120

taaatgttgt tcggatctga gtctattata aacatctttg tctgagttta ttgtttactg 180

atgccagttt ttttcaatat acatttatct taaataaa 218

<210> 31353

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G1

<400> 31353

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tgtccaggtg ttccctttcg tgccattata ttccccaaaa gcgagaatgg aggcattatt 120

gatctccggt tagggcatga atttttgcag acgatggcca gctgacgtag gggtttgagg 180

tatcagaatg tgcataatca tgtttatggt gtacaggtgt aaatcagcca agttattgat 240

tacaagtgtg acatgagaaa tacacattaa taaaaactcc agctcggttg tacagagatt 300

gtgtttgaac ccagaaattc atgtggttat gtcgtttgat aatatatgta cctggcaggg 360

gtgaagctag gccttttttt tgtcagctgg ccttgataat tttctggata tctaataaaa 420

aaacgatgtc aataacaag 439

<210> 31354
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-B10

 <400> 31354

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 acgaatctcg cggggcggag gtggtggccc gactgaagcg gtgtcgactc cgacgaactc 120
 gcagccaccg ggggatacgc agcagcagca cgggcgtact ccatcgacgt tcatatttaa 180
 ggacttggtt tggataattc tactcgtcaa caaaagtgat taaaaatggg gggctttgca 240
 gcttcaatcg tttcaaagtc gggaaaagca cttgtttcaa gacagattgt tgacatgtct 300
 cgcataaaa 309

<210> 31355
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-C11

 <400> 31355

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 taaatt 66

<210> 31356
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-D2

 <400> 31356

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 aactatatgt gatgaatgat ggcatatcag aggaagctgc gaaagctcta tctgagctta 120
 ttctgcaac tgagaagctt aaggttctcc acttccacaa caacatgacg ggagatgaag 180
 gtgctattga tattgctgag at 202

<210> 31357
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-G7

 <400> 31357

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 ggccgagact gagtccaagg aggtcgaggt caaggctgag gccgaggccg aggccgtagc 120
 tgaggctgag ccgaccgagg cagagcccga ggccgccttg ccggcagcag agacggaggc 180
 caaggaagca gagccggagg ccgccttgcc ggcagcagag acggagggtg ctgctgcccc 240
 ggctgaggct gctgagccgg agatagccgc cgagaccaa gaggtggcgg ctgtggaggc 300
 taacgaggaa gaagaggagg cagcg 325

<210> 31358
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-055-Q1-K1-H2

 <400> 31358

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 ggataaaaag aaaaggacaa acagtgtcta atacaaaag aggtgaaggg acatcca 117

<210> 31359
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-056-Q1-K1-A10

 <400> 31359

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 gccacggcgt gcccggtgtcg gccccgaaaa atcaaataca caaacttata ggctcttaag 120
 cgtgttgccg ggacgggagg ggtgtaagag gagcctcaga ggggaggaag gagagggaag 180
 cgggtggctgg gaggtgagca ggtggcgtcg tgatggatgg gggcaagggc gagtatggga 240
 gaggtgatag ttggagtcag gagatgggga tgggatgagc ctatctcgac aggagtgggg 300

agtttagtag gttagactat agttaatgcg ggagccaaat ggctaggaga aaatttacct 360
 ttgccataag cctttttccc tcttttgtct tgaaggccta aatccctcat ttgggcctat 420
 tgggtgtttta 430

<210> 31360
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-B12
 <400> 31360

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 taggctcctt tgtttctggg agttcaacgg aaggctctctg tattttttaca tatatcgagt 120
 gtgacagcaa attcaagaga aaaaaatata atctgcaa atgttataggct tgtct 175

<210> 31361
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-056-Q1-K1-C12
 <400> 31361

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 tttggcagaa tatttagcaa gtttgtatac ttcaggggta tgcagaatga agtgctgttg 180
 caaacttgct gtgtaactgc caatggcaca attgtttgta ttttgacta taatgttgca 240
 caaatgtcg gattgcaatc ctc 263

<210> 31362
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3067-056-Q1-K1-D10
 <400> 31362

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 caatccactt gtcaatattt tgaagtaa atcttttaagg tgttgccgaa tagagagatt 180
 gaatacctat cggtagaata taattcataa tcacaactga tgatgatggc atcaccttct 240
 ccgagacaaa cttcagacca caagacaaca agttgaggaa gcaagggagg ggaatggact 300
 tggcttgact cacgttgggt acgggtcatcg gtgtaggtgc gaccggactt gggttgactc 360
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<210> 31363

<211> 298

<212> DNA

<213> Zea mays

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<400> 31363

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 ttcccatcgg cgttgtcttg gtgaaggaga aggtcgccgc agccataaac tacggcgacc 180
 acggcacgac gttcggcggc gggcctctcg cctgccagac cgcgataacg gtgttcgaca 240
 agatcacgag acccggtttc ctggccgagg tgtccaggaa aggggagagc ttgaagct 298

<210> 31364

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H6

<400> 31364

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 aagaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa 99

<210> 31365

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B1

<400> 31365

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aaagttgggt ggtagccttt aaaaactctg tatataatac tgtggtttta tcaatactat 120
ggtaattttg gggatatagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaagaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaga aaaaataaat 240
aattgaaatc aagtaaaaat aaatttaatt aactggcaca ttaattaaca acagtta 297

<210> 31366

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D12

<400> 31366

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gggctaacat gctttagat gaccaattca aagattcggg tcggatgtat tcattgttcc 120
gaagggttcc agatcgacta tcaactatta gagatgccat gacttggttac ttatgggcca 180
caagtttagca gtctgtgaca aatcaaaatc gtcgggtctca gctatcgaac ttaatgtgag 240
cattgtcaaa tgc 253

<210> 31367

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F11

<400> 31367

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<210> 31368

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H3

<400> 31368

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tgtttagtgat aggaaatagt ctaaggactg ttctacgata aagcctggag aaagctgaag 120

tggtcgggtga ttataagaac tgggtggcaac tcccattcct gtggtagtcc tggctgactg 180

taaatatcgt ttgacagagc attaccatgc caactcaatc tgttgtgata ctcttgtaat 240

gactagttag ttaagttgaa ctgttgggta gatacgagat actaggttat tatcgcggt 299

<210> 31369

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-A7

<400> 31369

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attatacaga ttgtttccgt ggattacaca cagatatggt acacgaaggc agagcacctc 120

gtggcggtgg taggagggtg ccttcctgct tggctgcttg ctttactgaa cgaagcacga 180

acccggggccg accggcgggc tccgagcgta gtagttcgtg acaggagccg cggcgacccc 240

acgggtgggtc agcaggcacc tgaagcgggtg tagccgtgac agcacggctg tctcgacgtc 300

ctgggcggtat atggcctnca gctggctcca cagacgtctc gccgtgctg cggtcggggg 360

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<210> 31370

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B11

<400> 31370

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gtcccaggaa tccggcaagg aggagatcaa gaagcacgta ctcatctgcc gcgtgaagcg 120

ctcaccacgc agcgtgctct cgaagcgggtc gccgttccag gagataggca acatcagctt 180

gccacggcat cggtgaggac cgacgagcat ggggtggcgat gttgctctgc gacctgtgtg 240

agtgatgggg ctactgcagc ggaactacga aggggttcagc tgtaagcggg agagagagta 300
gcacgtgat cgatctgac agcatctacg caataaataa tttatgtatg acccactgat 360
gaataacgaa gcctgacttc tcgtcagatc ggtagtaata atcataagca gtcagt 416

<210> 31371
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B9

<400> 31371

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gccgccgagg cctacctcgt cggcctcttc gaggacacca acctctgcgc catccacgcc 120
aagcgtgtca ccatcatgcc caaggacatc cagctcggcc gccgcatccg tggcgagcgc 180
gcgtagccat catctccgag gatctgatga atgtctagtt accaaaaaat aggccgtatt 240
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atcttatttg tggcctctgg tgggtgcttc gcttctaagc gatcatctgt ggtgcaaaat 360
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<210> 31372
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C4

<400> 31372

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<210> 31373
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C9

<400> 31373

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ggggaaaaaa aa

72

<210> 31374

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E4

<400> 31374

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ggaactctgt tttgaaaaat cattccttga gtggcataat tttccaggct atggatgcta 120
gaatggatta aggagaactg atgtgataga ccttttcttt aacgtttttt ttatccctga 180
agtaaagtca gtttggacgt 200

<210> 31375

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G1

<400> 31375

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agcagtacga gagggactcc tctaagaccg gcagggattc acaggacgcc cttgctccgc 120
tggttgatgt tgcgctcaag ctctccaaga tgcaagagta cactggacgc tctgccccca 180
ccgtcatcac ataaattttg aagtgtttta gaatgagttg aggcgcttac acaaactttc 240
attccggcct cttgttccat agtttttctt gcatgttaca tctcaccgat gaataaaatg 300
tatgtatcag acttgtctcg ttaaaaaaaaa aaagaaat 338

<210> 31376

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G8

<400> 31376

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gtctgtttgt gtaaagccaa cagatgggtct gacctgacat gtgtttttcc aggagtcact 120
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 acgtctaaag tggcttgatg atagttctaa atttcaactc cctgtcatta ccaggtgcaa 240
 aaaagaaaaa taaaaaataa tatic 264

<210> 31377
 <211> 69
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-059-Q1-K1-D11
 <400> 31377

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 aggggggaat 69

<210> 31378
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3067-059-Q1-K1-F7
 <400> 31378

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 ctgtgcatca actttatttg gggtcattcag agcatttcat atccatccag atcgaccatg 180
 ctcatcggg tccaccaggt cctcgttggt cagctgatcc atgtaggctt gatgatggta 240
 cccgaactgc aggggaaggat cgttgtccag gtgctgaagg agcccctgat aaggatcaag 300
 aacatttcca ctgcgccac tgtgccacc ttctcccag gagacacgga acgcgttctc 360
 tggccttggt tcttgagct gcttccttag gtcttttatt gagatccaac aattcttggg 420
 ccctgcttt 429

<210> 31379
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G3

<400> 31379

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaatatata aaaaataaac 180
aaaaaaaaaa taaaaacaac aacaatcaat 210

<210> 31380

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G6

<400> 31380

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atcttgaatc ctcgatctgg acatggtaga tctagcaaag tttttcatgg aaaagtggaa 180
cccatattta aggtatgtct agctgagtag aagcatgcat cttatctcaa gattggatct 240
gtgttgtegc ttctactagg aactttggta tgatctagtc atgcttccca agatcatatt 300
tagtccggtg tttcatacaa cctaagatgt ttataaatga gttgtagaca attttataag 360
ctttccacct tcacaaggta ctatcctttt ttcttggtca tattctggat tctgtatatt 420
tcttggtgtg tgcaagaaat 440

<210> 31381

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H7

<400> 31381

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tgccgtggct tatttgtact gtcttcacct ggtggaattt ttgcacgtga gctacc 116

<210> 31382
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-B12

 <400> 31382

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 tagtgattag tgagtcatat atacttgccg tcacacatat gccggtgtac atcatgtgtg 180
 ctcagcatgt ctattctaaa aaaaaaaaaa aaaaaaaaac cataga 226

<210> 31383
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F4

 <400> 31383

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 ggatctgtga accccatggc gcctctgctt gattcgtgtt tcacctgtta tgttctgaga 180
 ttcatgataa tgctatgaga actgaaattc ccgtttcatg cttcttaaatt ctttgacctc 240
 tgcggtttgtg ccaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaataaaaaa aaaaaaaaaa aaaataaa 328

<210> 31384
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3067-060-Q1-K1-F8

 <400> 31384

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 gtatcgaagc tgtcaggatg tccaagcgcg ccggatgggg agtgatggca agccacagga 180

gtggcgagac agaggacacc ttcattgctg acctctcagt tggcctgtct acgggceaaa 240
tcaagacggg agctccttgc cggctctgagc gcttggccaa atacaaccag ctgctcagga 300
tcgaggaaga gctcgggtgat gccgcgggtct acgccggagc aaagttcagg gcaccagtgg 360
agccctacta agaaaggaag aagatgggga tgttttcttg tggagctata ctagctcgct 420
gctgcctttt gttacaatg 439

<210> 31385
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G4

<400> 31385

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agatcttgat gcttttgaga aagaactgga tgtgcttgat caaaatggat ctagcatagg 180
aactgcaaag tgaaaagagg ataaatgctg gctcaagaaa aacctcttat at 232

<210> 31386
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G7

<400> 31386

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gggtaaagaa tccaagctta catacacata catgcaacga aaatgggctc ttctatactg 120
agacctaaat tcaatt 136

<210> 31387
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H6

<400> 31387

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 gcgatccaca ggctggagga gtggagcatc catatcgagg aggccaacag cgccaacaag 180
 ctggtggtga ttgacttcac tgcaacatgg tgtgctccgt gccgcgccat ggctccaatt 240
 tttgctgata tgtgcaagaa gtccccaat gttggtttcc tgaaagtga tgtccatgaa 300
 atgaagacca ttgctgagca attcagcgta taggcatgc caacatttct gtgcatgagg 360
 caaggcgacg tccatgacag ggtctgtggc gcaccacatg aagagctagc acggaagctt 420
 gaactacaca tg 432

<210> 31388

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C1

<400> 31388

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 tcggccggcg gtggtagtct gcctgcagct ggggttagct gcaagggttg ggagctagcc 180
 atggggaggg gtcgggtgga gctgaagcgg atcgagaaca agatcaaccg ccaggtcacc 240
 ttcgccaagc gccgcaacgg cctgctcaag aaggcgtacg agctctccgt gctctgcgac 300
 gccgaagtcg cgctcatcat cttctccaac cgcggaagc tctacgagtt ctgcagcgga 360
 cagagcatta ccaaaacact tgagaggtat gaaaaaaca gttatggagg accagatact 420
 gctgtacaga acaaggagaa ctgtgctg 448

<210> 31389

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F6

<400> 31389

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ctagcagcta ccagctctcg gccggcggtg gtagtctgcc tgcagctggg gttagctgca 120
 agggttggga gctagccatg gggaggggtc ggggtggagct gaagcggatc gagaacaaga 180
 tcaaccgcca ggtcaccttc gccaaagcgc gcaacggcct gctcaagaag gcgtacgagc 240
 tctccgtgct ctgcgacgcc gaagtcgcgc tcattcatctt ctccaaccgc ggcaagctct 300
 acgagttctg cagcggacag agcattacca aaacacttga gaggtatgaa aaaaacagtt 360
 atggaggacc agatactgct gtacagaacc aggagaacga gttagtccag agcagtcgta 420
 atgagta 427

<210> 31390

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C7

<400> 31390

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 aaaggaagct gcacgagttt gaggcagagg ctgcttctcc cccacaattg gcgtggcaag 180
 gcggaggcgg catgttgctc catgaccctc cacagccaga acatttcttc gtggctctgg 240
 agagcaacgc gcctctgcaa cctacatacc atactatgga catgaaccag cagccagagc 300
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<210> 31391

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F11

<400> 31391

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 agctatcatc tgcgttttct ggtactcagg ataagtgtgc agcttgccag aaaacagtgt 180

acccgctgga gaagttaact ctggaaggcg agtcctacca caagagctgc ttcaagtgtc 240
 cgcacggggg ctgcatectc accacctcct cctacgccgc gctcaacggc gttctgtact 300
 gcaagatcca cttcgcgcag ctgttcatgg agaaggggag ctacagccac atgatgaaga 360
 agagcccgtc ccaggatacg ctgccggaca tggccgncga cgagcaaccg ncggaaccgg 420
 cgccaccgca agacggggaa ggagaagaca ac 452

<210> 31392
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-022-Q1-K1-G12

<400> 31392

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 acggtgtgct gtactgcaag acccaattcg agcagctctt caaggagacc gggagcttct 180
 ccaagaactt caccgccagg ggcaagtctt cagacaaggg tgaactgaca agggccccca 240
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 tgtacccgct ggagaagtta actctggaag gcgagtccta ccacaagagc tgcttcaagt 360
 gctcgcacgg nggctgcac ctcaccacct tctnctacgc cgcgctcaac ggcgttctgt 420
 actgcaagat ccacttcgcg cagctggtca tgga 454

<210> 31393
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C8

<400> 31393

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 gaaaaggatc ggggggaaca ccattcctgg tatcgaggag gtcaacatct tcaaggacga 180
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ggttagtgga gtaccccaga caaaaagtct gcaagacctt ctgccatcaa ttatcaacca 300
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 acctggtgct gaagcagctg cacaggatga tgacgacgtc cctgagcttg tccaaagaga 420
 gacatttg 428

<210> 31394
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-043-Q1-K1-A2

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 aggacacgtc tggcccttcc ctcaacatcc tcatcaagct tatggcggtt gaatcccttg 180
 tcttcgcccn cttcttcngc cgccatggtg gcattctctt caaatggctc taagccagcg 240
 agagacgcan gataaaagcc gtagttttgc aaggcgagta gagcagtatg tcagtaatac 300
 agcatctatg gcatgtgctt ttgctcgtcc agttcatgag ccccgttgtg tatttggttt 360
 ccgttttctt ggttggagtt tttagttcca aagtccgac atgttttgat ccataaatt 420
 ctcttcagc cttcgagcaa c 441

<210> 31395
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-013-Q1-K1-H2

<400> 31395

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 ccttatgccg atgattgatc agggagaggc agatgacaag atcattgcag tgtgcgctga 180
 tgatcccgag tacaggcatt acaatgatat caaggagctc ccacctcacc gcttggctga 240

aatcaggcgc ttcttcgagg actacaagaa gaatgagaac aaggagggtg ctgtgaacga 300
 ctntctacca gcgagcgccg cttatgaagc catacagcac tctatggatc tgtatgctac 360
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<210> 31396

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F9

<400> 31396

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 tctctctggg catggatgat tgtttccctc tttgaataac agcggaaaac ttgacatctt 180
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 tccaaagacg ctggctgacg ttaaggggtg cactctcatc tcttacgaag gaagagttca 360
 gcttttggag attgccaag tatccgatga gcatgtgaat gaatttaaata caatcgagaa 420
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<210> 31397

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F10

<400> 31397

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 gatttcattg atcacaacga gcaaggatgat aggtaccgtg aattggccca taggggtggat 180
 gatgctcttg ggttcatgac tgcacggggg cttacagtcg accacccgat aatgacgact 240
 actgacttct ggacctcgca cgagtgcctt ctcttacctt acgagcaggc tcttacctgt 300
 gaggattcca ccagtggcct tttctatgat tgttcggccc acatgttgtg gggttggtgag 360

cgcaactcgac aactcgatgg agctcatgtt gaattcctcc gtggtgttgc caaccctctg 420
ggcataaagg tgagcgacaa aatg 444

<210> 31398
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E6

<400> 31398

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gtg 423

<210> 31399
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D10

<400> 31399

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ctcaattctg gctgaagtgc gcgcattctt cgatgtgcat gatcaagaat gaagtcaccc 180
aggaggcatc caccttgaaa tgact 205

<210> 31400
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A11

<400> 31400

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tgctccgaga gtttcaagga gttccacgcc aacaacatgc gtgacac 347

<210> 31401

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A4

<400> 31401

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ccctcctata catggtgcct ctatcgggtgc taccatactc agggacagcc agatgttcaa 180
cgaatggact ctggaactga aagccattgc tgataagatc attcacatga ggcacaaact 240
atttaatgcc cctaaatcca aatgaacccc tggagattgg agccatatca ttgagcacat 300
tcggatgtac actgtgactg agctgaataa cgaacaagtc gcattcatga ggcaggaata 360
cctcatttac atgacatctg atgatatgaa catcat 396

<210> 31402

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C6

<400> 31402

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catccgtccc caagaagtgc agcctcgccg tcgcgggcgaa ggacacggca ttccttagcg 180
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gcgtcgctgt cggtgagagt cacttcgcca tctaccggcc cacggcaagg acgccgacgt 360
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cgcgctgct cctggacgac atgc 444

<210> 31403
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-021-Q1-K1-A7
<400> 31403

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catccgtccc caagaagtgc agcctcgccg tcgcgggcgaa tgacacggca ttccttagcg 180
tattctacaa gaaggtgcac gggcgctcac tgtccgtgaa aacgcggtgg cgactaccgc 240
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tgccgtggtg gtgatca 317

<210> 31404
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-003-Q1-K1-H6
<400> 31404

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ggtcgaacct ggagctggag tctatcaagg agaagaccaa ggagaaccag gagaagatta 120
agctcaacaa gcagctgccg tacctcgtcg gcaacatcgt cgagattttg gaaatgaacc 180
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaaggaa 240
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attggggttag 300

ttgacccccga taagctaaag cctggcgatt tagttggagt taacatagac agctacttga 360
tactagatac a 371

<210> 31405
<211> 531
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-033-Q1-K1-H5

<400> 31405

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aggactgatg ctgcagtcgg tctgaacact ggggagctgg tagtcttatg caaggcagaa 120
tgaccacagg tagaacacat gagaagtatt aatgctcaac aagcatgctg tccgtacact 180
atgtcggcta catctgtcga gatattatgga aantgaacgc ctgatggatt gaggcttgac 240
agaatgatgg tagctaacca tctgatcgtg agactcacag aaggaatagg ataaatgtgt 300
atggtctaga agaccatcca ctcagacaag accatanttc cgttcctgta atatgggtta 360
gattgatccc cgataagact agaagccatg gcgaatttag tatggagtta acataagaac 420
agctacgttg atacttagat accattgcgc ttcaggagta ttgactcaca gggttaagtg 480
caatggtaag tagcatgaga aaacctaaact gagggattac aaaatgacat t 531

<210> 31406
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-033-Q1-K1-H9

<400> 31406

tcacagggc ctcccgctc ctcgacaacg agatccgcgt ccacaaggac gagctgcagc 60
ggcgaacct ggagctggag tctatcaagg agaagaccaa ggagaaccag gagaagatta 120
agctcaacaa gcagctgccg tacctcgtcg gcaacatcgt cgagattttg gaaatgaacc 180
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaaggaa 240
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attgggttag 300

ttgaccccgga taagctaaag cctggcgatt tagttggagt taacaaagac agctacttga 360
tactagatac attgccttca gagtatgact cacgggttaa ggcaatggaa gtagatgaga 420
aacctactga agattacaat gacattggcg gacttgagaa acagattc 468

<210> 31407

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D12

<400> 31407

cccacgcgtc cggcgccgtc tggcccagaa ccgtttagct gctaggaaaa gccgtctaag 60
aggggaaggca tacgttgagc aacttgagaa tagcaggctg aaacttagcc agttggagca 120
ggagctccag cgtgctcgcc aacagggcat cttcattcct actccgggag acgaccagca 180
gccaaactct actagtga aaaggtgcttt ggcgtttgac aaggactacg ctggatggga 240
agacgagcac aggaagcaga taagcgagct gagggccgag ctcaacgcac acgccggtga 300
cgacgagctc cggcgcatcg tggacggcgt catggcgcat caccacgaag cgttcaggct 360
caagtgcgtg gcagccagtg cggacgcctt ccacgtgctg tcggggatgt tgaagacccc 420
cgtggagagg tgctttatgt ggct 444

<210> 31408

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G10

<400> 31408

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ggaagaaaga aggcatacgt tgagcaactt gagaatagca ggctgaaact tagccagttg 120
gagcaggagc tccagcgtgc tcgccaacag ggcattctca ttctactcc gggagacgac 180
cagcagccaa actctactag tgaaaaagggt gctttggcgt ttgacaagga ctacgctgga 240
tgggaagacg agcacaggaa gcagataagc gagctgaggg ccgcgctcaa cgcacacgcc 300
ggtgacgacg agctccggcg catcgtggac ggcgtcatgg cgcacacca cgaagcgttc 360

aggctcaagt gcgtggcagc cagggcggac gccttccacg tgctgtcggg gatgt 415

<210> 31409

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B6

<400> 31409

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agctagctag cagcagctct gttggtgtgt gtgtgtgtgt gtgtgtggag ggtagctgca 120

gctggggcta gctggaaagg tcgggagcca tggggagggg ccgggtggag ctgaagcgga 180

tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 240

aggcgtagca gctctccgtg ctctgcgacg ccgaagtcgc gctcatcgtc ttctccaacc 300

gcggcaagct atacgagttc tgtagcggac cgagcatcac gagaacactt gagaggtacg 360

aaaaaaacag tta 373

<210> 31410

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C7

<400> 31410

cccacgcgtc cggctctcct cctttttctc cactccgctt ttgcttggtt ccatcggggc 60

ggagagggag aagctagcta gctagcagca gctctgttgg tgtgtgtgtg tgtgtgtgtg 120

tggagggtag ctgcagctgg ggctagctgg aaaggctggg agccatgggg aggggccggg 180

tggagctgaa gcggatcgag aacaagatca accgccaggt caccttcgcc aagcgccgca 240

acggcctgct caagaaggcg tacgagctct ccgtgctctg cgacgccgaa gtcgcgctca 300

tcgtcttctc caaccgcggc aagctatacg agttctgtag cggaccgagc atcacagaaa 360

cacttgaaag gtacgaaaaa aacagttatg caagcccaga tactgctgta cagaacatag 420

agaacgagtt agt 433

<210> 31411

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-F7

 <400> 31411

 cccacgcgtc cggttactcg tgccgagcac ttgatctcgg acgaatgcat ctacttcaac 60
 atggagagga tttagctgta atcacatggc ctaagtattc tctaggacct ccgtagtgct 120
 gtgatcaaac taaacatcgt gattcatcgt gaccgtacca gttctgactc cgacggtcga 180
 cgccaccgga aagccccga tggggccgac cccggttcct cccgccgtcg ggacgcaaca 240
 ggctgctctc gccgcccaag ccaatgtagc atagccagat gagccgacgg ataccgagcc 300
 aggtcccgcc agttcaaccg ttatagccaa tgcttttgcc gaag 344

<210> 31412
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-F9

 <400> 31412

 cccacgcgtc cgcccacgcg tccgatttac ccggaggatg cgagcaagaa caaggacgtg 60
 aagaagttcc accgggtcac gcacagccgc tacgagtact cgacgccgac gtggacgggtg 120
 tttgccacgg atgatcccaa cgcgcagtgg aacatgctgg tgaagaaaga ctcgtacacg 180
 ccggcgtgcc cctacgcgta cccggacggc ggcgagagct ggcacatgac cgggcacctc 240
 tgcaccccta ggaggtgctg ctgatttgtt cattggattt tggattgcat cctccttcgt 300
 cgtcacgagc agctaccagc tactgcgacc ttcccccca aatcagtaat aaaccactag 360
 ggaattagca gggctcttgg tgcacctgat gatgacatca gcggagccct gcctctctg 419

<210> 31413
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-G10

 <400> 31413

ccgcacgcgt ccgaaaaaaaa aaaaaaaata aataaaaaaa aaaaaaaaaa aaaaaaaaag 60
 aaaagaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa acaaaaaaaa aacaagaaat aaattcaaatt 180
 tataaaaaaa taaaaatata aaaaaaagga gaacattaaa aatgattaaa accccaaatt 240
 aaaaaaaatt gaaaaattaa aaaaacacta tcgactatt 279

<210> 31414
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G11

<400> 31414

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 ggataaaaaa aaaacaaagg cagcaaaaaa aaacataacc aaaaaaaaaa aagacaccca 120
 gaaaacaaaa aaacaaccta aataaagcaa cacaattcaa cacaaacaca catatacacc 180
 ataacttaca tctaacaaaa tcgacctacg catccaaaac cacagcacc aatcagacca 240
 cagcaacggc tgcaaccctt gctagaacgc cacgaaacac atacccatcc cggctgccaa 300
 aaacacccgc ggactaacac tccacg 326

<210> 31415
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G2

<400> 31415

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 acatgggcta tgaggatgag cctgcagaac ctgagattga ggaaggggcc gaagaagagc 120
 ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agaggggtgaa gataaggaac 180
 aggaaaagac caagcgtgag cgaaaaacaa caaatatat gacgaagtat gaacgtgcgc 240
 gcattcttgg tacacgagcc ttgcagataa gcatgaatgc tccagtcatg gttgagcttg 300
 agggagaaac tgaccctctt gagattgcga tgaaggagct taaagcgcgc aagataccct 360

ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420
 ttggggaaga ctcttgaaa cg 442

<210> 31416
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G3

<400> 31416

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 ggggggattt tcagaatttt gggcactcca actaaagaaa catggccagg cggtacttcg 120
 ttgcccgaatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtgggtc 180
 ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcgtct agatcccagc 240
 aagaggatca ccgcccgcgc cgacctcgag cacgactact tcagggacct cgagcacgcc 300
 tagcatgata tggatggatg gatgaaccat ttacctgcc atgctccctc tgtaaattac 360
 ggtagcagcc gagatgcttg gggccggcga gtacctgtt 400

<210> 31417
 <211> 126
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G4

<400> 31417

accacgcgtc cgccgactcc tcagtcgaat taaaacctaa acaacaaaca ccaaaaaaaaa 60
 gagagagact acaaaaaata acttaaacca gacacacaaa gatcaaaaga gagaaaccag 120
 ctacaa 126

<210> 31418
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G5

<400> 31418

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 agggctctcg cagcggataa cttaacctgt cgcgcaagga tcgggggaga gaaaccagcg 120
 gcaacttacg tggatcgggg ttgtttggtg ctgctgcggc ggcgagggga tggaccggaa 180
 gcgcatcaag gacgcgctcg agaagcacct ggagaggtcg tcgccgtcta cttccagggg 240
 cgtcgtgtcc aaggagaggg agcgctcgc tgccgggaag ctgccgtcat cgcttggtcaa 300
 ggcggaagtg tctgatggtg aagaatttga aactgacagt gaagattctg atgtgagtgg 360
 ttccgagggga gaggacacgt cctggatttc atggttctgt acattgcgag gcaatgaatt 420
 cttttgtgag atcgatgatg actatataca ggatgatttt 460

<210> 31419
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-H12

 <400> 31419

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 gctgaagagg aggaggagga ggaggagaag cagcagcgca gccggaggag ggagagcgaa 120
 gatgcgccgc gtcgcgtgtg tgctcgtcgc cgccgtgtgc gcgctggcgg cgccggctgc 180
 cgcggtcgtc actgacggtc ttctcccgaa cgccaacttc gaggatggcc cgccaagtc 240
 ggcgctggtg aacggcacgg tgggtgtcggg cgcccacgcc atcccgcggt gggagacgtc 300
 cggcttcgtg gagtacatcg agtcggggca caaaagggcc ccagggggac atgctgctgg 360
 tggtgccgca ggcgcgacg cngtgcggtt gggcaa 396

<210> 31420
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-H2

 <400> 31420

ggacggccgc aacatcaccg tcaacgaggc tcagtccgcg ggcggccgtg gaggcggagg 60

cggcggctgg tacagtgggt gccgtcgagg cggcggctac ggcgggtggcg ggcgccgtga 120
 tggcggcggc ggctacggcg gtggcggcag ctacgggtggg ggcggcggcg gctaccgtgg 180
 tgggtggcggc agctactgcg gtggcaaccg tggcggcggc tacagcaact tcgacgggaa 240
 ctggaggaac tgagcgggtg ggcgcgcgcg gacaagttat cctgttcgct accgtgttgt 300
 ttaccctagt ccagagtgtt tatcttcggt cgactcgcgt ttgctgttgc ccatctgtgt 360
 ttttgattga aggtcgctct gtgtcagttg ttagtgc 397

<210> 31421
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H7

<400> 31421

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 cggggccgct agctccacct tcctgagctc cgccccgagc gcgatgtggc gagcgacgag 120
 gcggtctccg ccgttctcgc gatggctatc gtccgacgca gcctcctcta aggcgccgcg 180
 gcagcgcgta gcggcgctgt gggggaacgg tgactacggg cggctggggc tgggttcgct 240
 ggagtcgagg tggagcccca cggtttgccc cttcttctc gcccgcgccg gcgaccgcc 300
 cgccttctc gcctgcggcg gcgcacatac cctcttctc acccagaatg ggcgagtgtt 360
 cgctacaggg ctgaacgact ttgggcagct tgggatagga acctctggta cacatatgct 420
 ggagccctgt gaaatttctg ga 442

<210> 31422
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-H9

<400> 31422

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 taaaaaaaaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa gggggggggc ctttaaaaga tccaaaattt acaaccccg 240
 aaatgcaact aaaaaatttt tcaaagggga ccccaaaata aaatacaggg gccggattta 300
 aaaaacgtag aaacgggaaa aacctgggat aaaccaaact aaaaaaaatt tacccttgga 360
 aaaaaatccc cttttcccaa agtggcgtaa aaccaaaaag gcc 403

<210> 31423
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-062-Q1-K1-F12

 <400> 31423

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 ggacagcatg gccaaaggccg agctgctcct cgccctcgtg gcttcgctcg tcgtgctgcc 120
 attctcctcc ctgcgcgtgt accaggactt ctgcatcgcc gacctatccg ccgccgccac 180
 gccggggcggc taccctgca agccccgaa ggacgtgacc gccgacgact tccactatgg 240
 cggcctcgcc acccccggca cggcgctgaa acccttcaag atctccctgg gctcggccgt 300
 cgtcaccaag ttccccggcc tgaacgggct gtggggnncc ccattctctgc cgcgcggtatg 360
 gtgatggtec cggggggcgt cgcgccgctg cactcccacc cgggaggcac cgagctcatc 420
 ttcgtcatcg 430

<210> 31424
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-062-Q1-K1-D10

 <400> 31424

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 cttctgacgc tcacccatgg ccaactgccga ggtccagacc ccgaccgtcg tggcgaccga 180
 ggaagcgccg gtggtggaga ccccggtcc gcccgccgtc gtgcccagg aggctgcccc 240

cgccggcgaa gccaaagtgg aagagccagc tgccccggcg gagaccgagc cagctgccgc 300
cgctgagccc gaggcggccc ccgtggcggc aggagagggg ggaaaagaga cgc 353

<210> 31425
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D11

<400> 31425

cttgatcagg gagacacagt gctcggctctg cctagcagaa tacgaaccgt acgagaggct 60
gcaaaaagata cctccctgtg ggcatacctt ccacatcaac tgcacgcacc actggctctc 120
cacaaacacc acctgccac tctgccgagt atcgctcctt cccgccccca aggcaaccag 180
caccggactg gatctggaag cacagactgt ggtagaagag gagtccccga acgcacatca 240
tcgccaggag gagggactag ttgatgccaa cacaccacag gaaggtgagg cggccgtagg 300
tgacggagca agtagcgtcc agattgaaga acccccccg ggccaccacga tgcggccgag 360
ccactggtag tgacgggtgt cgctgtcgtc gcacctcagc ctgacgctga aggttcaccg 420
agtacagca 429

<210> 31426
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D12

<400> 31426

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cgagtgagag gggggaaatg ctgcgccacg ccgcccgcg tctcgtctcc cgcaccgccg 120
cggcgccac cgcccgcg ggcgtcgtca cggcagaagt gcctgcggag gccgcccagg 180
actccacgtt tgtggagacg tggaagaagg tcgccccaa cattgagccc ccaacgacgc 240
ccctcttget catgcagacg cgcccggcca cgccggtac cattccac 289

<210> 31427
<211> 470
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D2

<400> 31427

ccgatgcccc aattcctcct tcggatctcg ttttcagcgc agcgcacgtg tgaaggaagg 60
ggggcgcgga ggaagatggg gctcgcgttc gggaagctct tcagccggct cttegccaag 120
aaggagatgc ggatcctcat ggtcggcctc gacgcgcgcg gtaaaaccac catcctctac 180
aagctcaagc tcggcgagat cgtcaccacc atccccacca tcggtttcaa tgttgaaact 240
gttgagtaca agaacattag cttcactgtc tgggatgtcg ggggtcagga caagatcaga 300
cctctttgga ggcattactt ccagaacacc caggggtotta ttcttgttgt ggacagcaat 360
gaccgtgacc gtgttgttga agccagagat gagctccaca ggatgctgaa cgaggatgag 420
ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa 470

<210> 31428

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D3

<400> 31428

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ttacggggca caatatagca agagctgttg cctacagagg agcaactgcc gtatatggct 120
tcattctgcc gtggcttgac atgctcgtgt cagacatgct ctccgtctgg gccatcacac 180
tcagcattct cctctgtggc tacagcttat acttccctat atcaatatac aatcctgccg 240
ttagtgccgc tatagcagct ggtggcggat ggggc 275

<210> 31429

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D7

<400> 31429

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acgggggggac cgtccagacc ctccggcgct atcacgctat ggcccatact gttgtgctca 120
 aggttggcat gtccattgag ggctgtattg gagctgtcaa gcgtgtcctg ggcaagatgg 180
 aaggcggtga gtcctacgac gtagacatca tagaacaaaa ggtcacctgt aatggcaatg 240
 ttacacctga cgccgtcctg caaactgttt ccaagactgg caagaagact tcgttctggg 300
 aggctgacgc cgtgacaagt gaatccgtca cacctgccgg tgccaacttc tgacaagttc 360
 gatgatcacg aagtgccttg caaggcagct aataaaaaaa tgtgaatgta tctagcttgg 420
 aactgttaca aataatttca aactgctaac tcggtctgga cattttacat ttgctattc 479

<210> 31430
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D9

<400> 31430

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 ggtttatata cacacatggg cgccagacta tctactagaac agcctctatg aatggcagac 120
 ttgacacatc aaatggcctc caatctacac tgccgctcaa cataccgcta atgccataac 180
 gaacgaag 188

<210> 31431
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E10

<400> 31431

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 gcgtccgtgc cgctgtcctc gccgtcgcag gccggcctcc ttggccccc gttcccgtc 120
 ctgccaccgc ctttcggtgc atgcctccgc taccgcttgc cgaggctgcc tacaggcctc 180
 tcgtcgagcg tgaggaaggg agggctcctg ccgctgccgc tcctggtgcc tcccagggcc 240
 gcgggggggca aggacgggcg ggccgtgacc aaggaggagt tggaag 286

<210> 31432

<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E12

<400> 31432

cccacgcgtc cgggcacac gaatgtgtaa cctcaaagcc ctggtcacct cactactgtg 60
catctcggcg ttgtcgtcgt cgccatggcc atgcaccgca accggtcaac tgggccgcaa 120
gcccctggtc accggcgtca cca 143

<210> 31433
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E3

<400> 31433

ttcatgttat cagtttactt aactgacatt ttccacaaca aatctcttga ttcggaatta 60
ggggctcatg ttccgtctga tgaatcgatt ttctcttttt ttacacttc tgtatctcac 120
tctatcttgt tttttattat tatctaaaat aaccgatgaa ttatgaattt tccataactt 180
aaacttacgt aagtgcctta ccaacatatg tagtgtacta aaaaaaatgg aattgaaccc 240
cttcatgctt actataacta gttatttcgg ttttctactg gctgctttta ctataacccc 300
agctctatct attagcttga acaagatacg tcttatttga aatgaattga atagaataat 360
ctttcttttg gattcttggg attctagact cttttccaca ctaattacca attcttttct 420
tggtcattga gattcgtggg tagtttagac tattatttag agatagat 468

<210> 31434
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 31434

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cggggtgcat tcataaccagc aacgatgac gctgttctct actacttoga tcacagcgtt 120

gcgtctcagc ttgctcagca gaaagagttc aacttgagga agcctccatc cttccactac 180
gatttgcttc tcttaggttt cctgacgtta atgtgtggcc ttattggtat cctccatca 240
aatggtgtca ttccacaatc acccatgcat acgaagagtt tggctactct caagcaccag 300
atccttcgta accggctagt agccaccgca cggaagggca tgagccagaa tgcaagcctg 360
agccaactgt atggcagcat gcangatgct tatcagcaga tgcagacacc actggtttat 420
cagcaacagt ctgtcagaag aggcttaaata gagctcaagg actcaac 467

<210> 31435

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E7

<400> 31435

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gtgggggagga gtcccagacc ccttggtatg atcattgcgc tggacgacga ggaggtcgac 120
caaggggtacg ggtacggcgc catgtcgtca gagctggagc tctgctgggc gcgcatcagg 180
gacctgaggg cggagctgga gttcagacgg cgcattgcgc gcattggcga tgcgctgagc 240
gaggcgctgg ccgaggagct ggccgacgag cggcggcgga gcgaggccgc ggaggccgag 300
tgccggggcgc tgctggagga ggccggcgcc tcgcgcgagg atgcggagcg cgccttgaa 360
ggcgtcgagg aggagcggcg gatgctgcgc gtcgcccagc tgtggcgaga ggagcgggtg 420
cagatgaagc 430

<210> 31436

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E8

<400> 31436

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cgactcatt taacgtatga tgaatccact aaatactatc attacacttc tgcatttaac 120
tctatcttaa gatttattat catctaaaat aaccgatgaa ttatcaattt ttcattatctt 180

aaacttaaat aaatgcttca ccaacatatt tattgtatca aaaaacatgg aattgaaccc 240
cttcatgctt actataacta gatatttcag ctttctactg gctgctctaa ctataacccc 300
agctctatct attatcttca acaaaatagc tctcatatta aaccaattga ctagaataat 360
cctacttttg gattccttat attctaaact cttttccaca ctaatcacca aatctattc 419

<210> 31437
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E9

<400> 31437

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aggtgtgtgt tacatgaaga ccatatgtga gctagcgatg gcttcttgag gtgatggctg 120
tgtttgatac tgaaaacat atgtgagcta gcgatggctt cttgaggtga tggcttctat 180
gagatagctc tatgaggcca gggtcgtcac tgggggatga aggtcctgaa aaatatagtt 240
actgctctgt acatgtgccg gtacatttca ttcaaaaaag gatggcacia ggacatggcc 300
t 301

<210> 31438
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F1

<400> 31438

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gggggaccta ccaagcctcc cagcgccaa cggacccgc caacgtacac ccctgcagca 120
aagcctccga caccgaagcc gtccccggct acgtacaccc tttctacaa gcctacgacg 180
cccgaccga cccgcctac agccactcca agcccaagc cttccacaca cccaactccc 240
aagccgaccc caccgacgta cagccttcc ccaaagcctt cgacgccaa gccgaccca 300
ccgacgaaca tctattcttc atagcctcct acacccatgc ctacaatacc gacgtacact 360
ttcaca 366

<210> 31439
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F10

<400> 31439

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ggtagtttga gcggttgggg cgaggcgct acgagtactc gacgcctacg tggacggtgt 120
ttgccacgga tgatcccaac gcgcagtgga acatgctggt gaagaaagac tcgtacacgc 180
cggcgtgccc ctacgcgtac ccggacggag gcgagagctg gcacatgacc gggcacctgt 240
gcatccctag gaggtgctgc tgattgtgac attggatttt ggattgcac cttcttcgtc 300
gttacgagca gctaccagct actgcgacct ttattccca aattagtaat aaaccactag 360
ggaattagca gggctcttgt tgcacctgat gatgacatca gcggagccct 410

<210> 31440
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F11

<400> 31440

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tagatctctg tattgaactg attgtgtgaa cttgtctgtg tgaaactttt gtgtgtgaac 120
ttgatggcta tgtgaaactg ttgtgtgcta acttgatggc tttatgaaac tactatgtga 180
ag 182

<210> 31441
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D1

<400> 31441

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gctgtttggg aagactgttc ctaagacggc agagaacttc cgagctcttt gcacaggaga 120
gaaaggggtt ggcaagagtg gcaaagccct cactacaag ggaagtaagt tccacagaat 180
catccccagc ttcattgtcc aaggaggatga cttcactctc ggggactgga ggggtggtga 240
atctatctac ggcttgaagt ttgcggatga gaacttcaag atcaagcaca ctggtccagg 300
ccttctgtcc atggccaatg ccgggagaga taaaacgga tcccagtttt tcatcaccac 360
agtgacaaca agttgggttg acgggaagca tgtggtgttt ggcaaggtgt tgtctggaat 420
ggatgttgtg tacaaggatcg 440

<210> 31442
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-A12

<400> 31442

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tgaggtgggg aagattttca gaattgtggg cactccaact aaagaaacat ggccaggcgt 120
tacttcgttg cccgattaca agtcaacttt ccaaagtgg ccacctgtgg atcttgcaac 180
ggtggtcccg aactcgaac cggcgggaat cgatctccta tctaagatgc tgcgtctaga 240
tcccagcaag aggatcaccg tccgcgccgt cctcgagcac gactacttca gggacctcga 300
gcacgcctag caggatatgg atggatggat gaaccatttt ttcngcccc tcccctgctc 360
cctctgtaaa ttacggtagc agccgcgatg cttggggccg gcgagtaccg gtttgggcgg 420
acgtctc 427

<210> 31443
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-A3

<400> 31443

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ggctgtggag aagacctcgt ctggacggga gtacaaggtc aaggatctct cgcaggcgga 120
cttcggtcgc ctcgagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg 180
cgccgagttc ggcccgtcca agcccttcgc cggcgctagg atctcgggggt ctcttcacat 240
gaccatccag accgtcgtcc tcatcgagac cctcaccgcg ctcggcgccg aggtccgctg 300
gtgctcctgc aacatcttct ccacgcagga ccacgccgtc ggcgtcatcg cgcgcgactc 360
ggccgncgtg ttgcctgga aaggggagac cctagaggag tactggtggt gcac 414

<210> 31444

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A4

<400> 31444

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tggaagatth tcagaattht gggcactcca actaaagaaa catggccagg cgttacttcg 120
ttgcccgaatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtgggtc 180
ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcgtct agatcccagc 240
aagaggatca ccgcccgcgc cgacctcgag cacgactact tcagggacct cgagcacgcc 300
tagcaggata tggatggatg gatgaaccat ttcccctgcc ctgctccctc tgtaaattac 360
ggtagcagcc gcgatgcttg tggccggcga gtacccgtht 400

<210> 31445

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A5

<400> 31445

ctcatgaaag gctcagacca atacaagctg ttgtaacagc catggcttca gcgaagcaga 60
gggagaaaat gcgcatactt ctgatcccat tcttcgccac cagccacatc gggccctaca 120
ccgacttcgc cgtecgctct gcagcggcca ggccaggagc cgtcgagccc accgtcgccg 180
tgaccccggc caacgtcgcg gtggcccggt cggcgctcga gcgccacggg cccgcggcga 240

gcggcacggt caggatcgtc acgtacccgt tcccgcgcgt

280

<210> 31446

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-A8

<400> 31446

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cggcgtaact tcatcgtaa gtccactgag taggtttggg ctggagaagc tggttctgcg 120

acttggtgcc gccatgaagc cagagttcct tttctaaggt cttaatcaat tgtaataaaa 180

cgaaatacag tcaggatttt tttgtgattt tttacttgat ctgtgagcga aactggggtc 240

tttcaccttg tcatccaatg ggttctgctc cttggtgaaa tctcccacca gccagtaaag 300

aactggggtg ttttcataat atatgctttt gctacgcagc ctctgttggt gtaaggaatt 360

gcattggtat cttatatcac tgnatgggta tgtttaacta gtttggtgat gtgccgcttg 420

tggttggggt t 431

<210> 31447

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B1

<400> 31447

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gaggggagtt catgatctgt ggagagtgtc gaaggatgag atttgcctgc cactgatgat 120

atcattgtgc caactgaacg gtctgcgctt gccgccttgc ttgatggctt tgctgtctga 180

tctcaagact aaggatttgg ggtttttacc tgggggttgat cttgcaaagg ttgagtgcac 240

atgcaaggaa atgatgaatc ttgcatcaga tgatagtatc tggaagaagc ttgtatccaa 300

gtttgaaaat tatggcgagg gctctaagct ggcaggcaag aatgcaaagg ccatatttgt 360

agaagcttgg caggccaata agagacggca gaagaggccc aatccaacct tttggaact 419

<210> 31448
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B10

<400> 31448

atgacagctc gagaaaaccc cctaactcgc cacaccgtgt aagacgtggg gcaaggtctc 60
gaatgactgg cgtaaatacga cgtagcggga atcgtttgaa agtgaaag 108

<210> 31449
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B2

<400> 31449

ctcgacaacg aggccatcta tgacatctgt tttcgctccc tcgacattga gaggcccaac 60
tgcgccaacc tgaatcgctt tgtgtctcat gtgatctcat ctctgactgc ttccctgagg 120
ttcgatggtg ccctcaatgt ggatgtgaac gagttccaga ccaacctggt tccttacccg 180
aggatccact tcatgtcttc ctctacgca ccggtgatct cttctgcgaa ggccttccac 240
gagcagctgt ctgtggcgga gatcaccagc agcgcgttcg agccggcttc catgatggtc 300
aagtgcgacc cacggcacgg catgtacatg gcttgtgtgc tgatgtaccg cggcgacgtg 360
gtgccaagg acgtgaacgc cgcggtggcc accatcaaga cgaagcgac catccagttc 420
gtggact 427

<210> 31450
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B6

<400> 31450

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ttggcctctc tacctaaaga ataaatcaag ctagcagcaa acctaccttc ggcgtgtgtc 120

tacttgc tta tcatagtgtg tgtccgtgta tgagagatga tgtactgtca cgaactcacg 180
 tgtgtatgag agaggataca tggtaagact atcactacta g 221

<210> 31451
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B7

<400> 31451

ctcatgaaag gctcagacca atacaagctg ttttaacage catggcttca gcgaagcaga 60
 gcgagagaat gcgcatactt ctgatcccat tcttcgccac cagccacatc gggccctaca 120
 ccgacttcgc cgtccgtctc gcagcggcca ggccaggagc cgtcgagccc accgtcgccg 180
 tgaccccggc caacgtcgcg gtggcccggt cggcgctcga gcgccactgc cccgcggcga 240
 gcggcacggt caggatcgtc acgtaccggt tcccgcgcgt ggacggcctc gctccgggcg 300
 tggagaacct cttcacgctc ggagacgacg cgtggcgcat cgacgccgtc gtcatcgacg 360
 aggccctctc gcggccggcg caggaggcgc tcctcagggg gcgggtcccc gacgccgtcg 420
 tgtcggacta ccactttctt t 441

<210> 31452
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-B8

<400> 31452

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 accggangag cgtgcttgac cggcggcggc gaggtgatgg cgatggacct tgacgcggta 120
 gcgaaggcct tcgtggagca ttactaccga acgttcgaca ccaaccgcgc ggcgctggtt 180
 gggctgtacc aggagacctc catgctcacc ttcgagggcc agaagtcca gggcccgtcc 240
 gccattgccg gcaagctcgg atctctccct ttccaggcct gcgagcatca gatcgtcacc 300
 gtcgactgcc agccatcggg tccccaggga ggcagctcgc tcttcgtctc cggttcata 360
 cgcaccggcc ccgaagagca ccccatcaag ttctcccaag cattccattt gctgccggcc 420

gctgggtcct tcttcgtgca gaatgacatg ttccgcctga acta 464

<210> 31453
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C1

<400> 31453

cccacgcgtc cgaaaaaaaa aaaaaaata tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaataa aaccaa 176

<210> 31454
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C10

<400> 31454

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cagaactgta tcattaatca aaacctctgg tggactgctc atttgcaact tgccaatgtg 120
cagtcattaa gaatgtcctg ccctagtgcg gtgggtgaggg ctgtctctct gaatcctcag 180
gtcgcgggtc gaatcagtct atctacattt atggggaaaa gcttgccctc atttatctct 240
tccatagacc cccccccccc cctgcgaacc tcgggtactg ggtctgtttt attccttggt 300
agtcgatact ggcacctttg agtttctcgt gtgggggttt tttagcctgg tcaattgtat 360
gagctgatta gtgctgagtt tagagctaaa caagtagagg tacattccac atggtagaca 420
tgttttatat t 431

<210> 31455
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-062-Q1-K1-C11

<400> 31455

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gaggatagaa gctggaaatg ccctgcacag agctttcagt gttttccttt tcaactccaa 120

atatgagttg ctactgcagc aaaggtctgc aacaaaagt acatttccac ttgtctggac 180

aaacacctgc tgtageccatc ctctctaccg cgagtcagag ttgattgagg aaaattgtgc 240

aggggtgaga aatgcagccc agcgcaaact atttgatgag ctgggaatag tggctgacga 300

attacctgac gaccagttca ttccgcttgg gnaaaagggg ggatgcttta caaggctcct 360

tcagatggaa aatggggcga acacgagttg gattacctct tgttcatggg tcgtgacgtg 420

aagct 425

<210> 31456

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-A11

<400> 31456

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acacagaaac tgaatccatt gtcggagatt tacatgtcaa gtttcagaaa tgtaaatctg 120

tgctggaggc tgctgtggct gctgaatcaa aagctacgtc agcttctgat gacctgatgc 180

tggcccttca gcaactgtcc gcggagtcaa acaatgcatt gcaagaagct gagataatgc 240

agaagagtgc ggcggagcta agaggnnnaa aggggaagcc aaaaaggctc gggctgaact 300

agcagaagcc gaacaaaagt tgcagttgac gttaaaggaa gcangagagg ctaaagcagc 360

tgaa 364

<210> 31457

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C2

<400> 31457

acaaagcata acaccaactt aaaaaaaatt ttaaacaac aaaaagacaa acaccataac 60

gtatcaattt aacatttccc aagactccta aaaactaaca aaccaatata acaactaaaa 120
 ttaaaa 126

<210> 31458
 <211> 125
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C3

<400> 31458

cccacgcgct actccaacta tgaaatctgt ttgcacccca cagacattaa gacgcctag 60
 gagtgcatta taaaatgtct tgtgactcat aaaaactcac atgttacttc ttcctttaat 120
 atcaa 125

<210> 31459
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C4

<400> 31459

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 gcccgcgagt gggccgacgg cggatttaag aggccagcag gcgcctacaa tctatcacct 120
 cacgagcatc tctagcattc caccaggctc ccaactgcttc gtgcccgcac ccctgagcc 180
 caacc 185

<210> 31460
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C5

<400> 31460

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 gggggccttc aagacggcca tctggttctg gatgacgccg cagtcgcca agccctcgtg 120
 ccacgccgtg atgaccggcg actggaggcc ctccgccacc gaccgcgccg cggggaggct 180

ccccggatac ggccctgacca cgaacatcat caacgggtggt ctagagtgcg gcgaggaccg 240
ctccaccgac gggcgccaaag ccgccaagga ccgggtcggc tactacaaga ggtactgcg 300
tatgctcgga gtgggggtacg gggacaacat ggcattgcggg agccagaagc cttacggagg 360
atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg tgtgtttgcc 420
tctctaccta aagaataaat caagctagca gcaaacctac cttcggcgtg tgtctac 477

<210> 31461
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F9

<400> 31461

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ccatctcggg ggcataatatt atacactccg aaggcacaaa actcatactt agtgacctaa 120
ataccaaaac catgtcctta aactacaaa atcacacact ttacaatcta actcctatcc 180
ctactaatca tattccatca catatcctgc accacatatt tactaataac agatagctac 240
acacaattct tacacatatt cagatactca tacttattat ccacccctac tcgaattgca 300
ctacatttct ctaaccct 318

<210> 31462
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G1

<400> 31462

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gaggggaagc aggagcggca cctggtgctg gccacaagc tcttccttct atcccccccc 180
tccgttgatg acctctcaa gtcgccctc cgcgccgaag tcctcgacac cgtgaaatcc 240
gatgatatgg cgacgtgtt tgagtcgctg gtcgcccgcg gtgtgctgga gggggacgcc 300
gcgctgctgg ccgagatgcg tgggaggatt gacgaggaga tccgcaagct agatgagaaa 360

attgctgatg cggaggagaa cttgggtgag agcgaagtcc gtgaagcaca tcttgccaaa 420
tctttgtact ttataagggg cggtgag 447

<210> 31463
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G11

<400> 31463

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atagacagta tactgtccta cggattttca aggtccgacc atggcacacc ggacacctcg 120
caatctacgt cgctcttccg gccgctggac cctacctcca gctgaaccga ttccatggac 180
gactgtccgt taagcataaa agataactct tcccagggcc cctccagca gtctacatac 240
tttctaaca 249

<210> 31464
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G3

<400> 31464

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tcgggtgtcc aatgttttgg ttggtttttt ttacaggaga gagagctggc caaggctgcc 120
gggaaactgg ccgactgcca gaagacgata gcttcactga gcagccagct gaaatcgttg 180
gccgatttcg acgagttcct ccctgaaacc gagactagtg gcgccgactc agccgacgcc 240
tgggacggcg acctgaagct gctccaccct gcaagctatc ccacgcagat tggctgtttg 300
gcagtcacat gagtcacgat cctcgttggc aggtgggagg agaaactgtt tttgttcggg 360
ttccaccgca tgattgctgt ggtgagattg ccatgatctt ccaccacatg ccatatagag 420
ttaagtttat aatagtctat aggtgagaaa atgttcatat gaaagctg 468

<210> 31465
<211> 435

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G6

<400> 31465

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gaggagaagc agcagcgag ccggaggagg gagagcgaag atgcgccgcg tcgcgctgtt 120
gctcgtcgcc gccgtgtgcg cgctggcggc gccggctgcc gcggtcgtca ctgacggtct 180
tctcccgaac ggcaacttcg aggatggccc gcccaagtcg gcgctggtga acggcacggt 240
gggtgcgggc gccacgccca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300
gtcggggcac aagcaggggg acatgctgct ggtggtgccg catggcgcg acgcggtgcg 360
gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 420
catcacgttc agcgc 435

<210> 31466
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G7

<400> 31466

acccacgcgt ccgaaaagac acaaaaaaaaa ttcaacaaa ttaataaaaa caaaaaaaaa 60
aaaaaaaaaa agggagaaat attaaaa 87

<210> 31467
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G8

<400> 31467

ctgggagcca atgcaggctt cgagtacatc atccaacttt aaatgttcaa gtgcttatca 60
caaacatgaa aggctgtgat agagaaatgt tgcttcactg accaaacatc atattcatga 120
taaatgatct atgtgtcaag attaggaggg aactgtgcta tggagatcac gacttatgac 180
tctaaccaat aatgatgatg agctagaaag gtaaaatatc atgcacaatg actgatgtct 240

ggaccccg

247

<210> 31468

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G9

<400> 31468

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agggcacccat aatttttact agaagtggaa gagttacaca aagttcgcga aatgatcaca 120
agggtttatg cactaagaac aggcaagcct ttttggggtg tatccgaaga catggaaagg 180
gatgttttta tgtcagcaga ctaagccaaa gcttatggac ttgtcgatat tgtaggggat 240
gaaatgattg acgagcactg cgatactgat ccagtgtggt ttctagaaat gtttaaggat 300
tggtagtggg ttgatttctt ggtaatttat cttaaaccta aattccggtt ttatgctata 360
gaaaatagaa atactttatg att 383

<210> 31469

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H10

<400> 31469

gaccactcg tccgaatgat cgtcaggaga ttgatcaact gcttgactg cctgagaagc 60
cacagggtggg gagacttggt ataaagagga ggaggcacac gaacaggccg taccaagaga 120
atctgctcaa catggctgaa gctcggcggg agatcgtcac cgccctcaag atccaccggg 180
ccagcagcag gaggcacag caaccaagt accagcgtca tcaggagccg ccgctgcgtc 240
aaccaccgtt tgcacagctc cagcaacagc aagaatagcc gaagcacgtg caagaggcgt 300
atctggatcc aagatgaagc caaccgaagg gtgacgaaga agcatctctg gcacatacca 360
ctatgaaata cgccatcttc actaacaacc cg 392

<210> 31470

<211> 229

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H12

<400> 31470

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cggctggcca cgggctgcgg tcgctttcta acgacctggg ggcgctccaa ttccgcaaga   60
agggtacat cccgctcacc acctacctcc gcacctacaa gatcggcgac tacgtcgacg   120
tcaaggtgaa cggcgccgat cacaagggga tgccatacaa gcactaccac agtcgcaccc   180
gtcgagtatg gaacgtcacc aagcgcgcca gataccacaa cataaaciaa   229
  
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<210> 31471
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H2

<400> 31471

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gaatatcccg gccgaactcg tccgcttatg aatcctgaac tctttcttcg ggttgtaatt   60
aagcctccta aggggtgttct acgctacggt cctacaggaa ctgggaagac cctattggca   120
agggtatcgc caagtaacat cgatgccaac tttttgaaga ttgtttcaag tgctattatc   180
gacaaatata ttggagaaag tgctcgtttg attagagaaa tgtttggtta tgcacgtgac   240
caccaaccat gcacatcttt catggatgaa attgatgcta ttggtggtcg aagatttagt   300
gagggaaacta gtgctgatcg tgagattcag cggacgttga tggagctcct taaccaatta   360
gatggatttg atgagctagg aaaggtaaaa atgatcatgg ccacaaatcg acctgatgtt   420
ct                                                                 422
  
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<210> 31472
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H3

<400> 31472

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cccacgcgtc cgaaaaatat aaaaaaaaaa aatatatatc caaataaaaa aaaaaaaaaa   60
aggaggaatt tattaataaaa aaaagggaac acaaaaaaaaaa ggacgacctt tctgatgcat   120
  
```

ccttgcttcc gaatgcttgc atcctaattc atatcctttc ttttgtccaa acttaattca 180
attgactgcc cttttacttc caacttc 207

<210> 31473
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-H4

<400> 31473

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aaccagctag ctcgggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt 120
cttcaaccac cacaagaagg acgaggagca gcccgcgcgc gagtacgggt actccgagac 180
cgaggtggtc accgtcaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga 240
gcacaagcac aagcagcacc tcggcgaggc cgggcgccatc gccgncggcg ctttcgcact 300
ctacgagaag cacgaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga 360
ngaggtcgct gccgcggcag ccgtcggcgc cgggcggtac gtattccacg agcaccacga 420
gaagaagaa 429

<210> 31474
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-H7

<400> 31474

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gaattccaga actttccgac ttcttaccta cgctgtgctg ctcatcgtgt tgcacaacat 120
tatggcttag agactatagt ggcagatagt ttagtagaag gctcagttag caggatcggt 180
gcaagaaaaa caccagagag caggtgtcct gcaatttcat tagcagaagt tcctagcaaa 240
caagcaagaa atgatcatga agcagcagag aagcttaagt ttgtcattta tcaaaggccc 300
aaagcattcc aaaatggaag cactgatttg ggaaacaaga atgggtgcacc aaaaactggt 360

gaagagagaa tagaggaata taataaagca cgagcagca ttttcaatgg ttcntgttct 420
gcagattctg atgctgcaag tgttt 445

<210> 31475
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H8

<400> 31475

cccacgcgtc cgaaatttaa aaaaaattaa aaaaaaaca aaaaaaaaaa aaaaaaagg 60
gaaaaatttaa aaaataaatg gggcctc 87

<210> 31476
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F8

<400> 31476

cccacgcgtc cggtcgaaaa aaaaaataat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
aaaaaaaaataa aaaaaaaaaa agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatttaa acaaattaat 180
aaaaaaaaaaaa acatataaaa atacaaaaaca aaataattaa taaaaaata aacccataac 240
aatataaaat taa 253

<210> 31477
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H9

<400> 31477

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caggtttagga ggaggaggac gcacacgagc aggccgtacc aagagaatct gctcaacatg 120
gcggaggcgc ggcgggagat cgtcaccgcc ctcaagatcc accgggccag cagcaggagg 180

cagcagcaac ccaagtacca gcgtcatcag gagccgccgc tgcgtcaacc accgtttgcg 240
cagctccagc aacagcaaga agagccgaag cacgtgcaag aggcgtttct ggatccaagt 300
cgaagccaac cgg 313

<210> 31478
<211> 211
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-062-Q1-K1-A10
<400> 31478

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tgatcccatt ctcccgcaca accgataccc tcaacagcgt cccgttaaac agaaaatata 120
actattcccg atgcctccgc cggcgtctcc atacatacta aacacgcca ctgccaatac 180
ctcccatctc tggaaatcct aaccatattc c 211

<210> 31479
<211> 262
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3068-061-Q1-K1-C6
<400> 31479

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gatatctagc gccggccggc ctgcacgcc gccgtgttgt gcgtacgtac gtacgtatac 120
atgtatgtat gtatatgcgc gcgtgtgatg cacgaataag cgtggctacg taatctatcg 180
tatgtatacg tgtgtgtatg catgtgcttg tgtatgatcg tggtagcagg accgaaaaaa 240
tgtatgcaac tctgatttac tt 262

<210> 31480
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-C9

<400> 31480

ctaagaaggc aggaattggt ggcaaatatt taaccaggta tgggtgctagc ttgcgtaagc 60

aatcaagaa gatggaggta tctcagcatt ccaagtactt ttgcgagttc tgtgggaagt 120

ttgctgtgaa gaggaaagca gttggaattt gggggtgcaa ggactgtggg aaggtgaagg 180

ctgggtggtgc ttacaccatg aacactgcta gtgcggtcac cgtcaggagc acgatccgtc 240

gcctgaggga gcagactgaa gcatgatata gctctttata ttattgggggt ttctctgtagt 300

tgctcttgct aggcattgtt tggggggcctt atctagtgga aatgtggaat cactgtactg 360

gctgttttgc cgagacaatg ctctttatat ntggtttatg ctctaggatc tcaaagttgt 420

gtngttg 427

<210> 31481

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D10

<400> 31481

accactcgt ccgcccactc gtccggctgt ttatccaatt gtttcttgca ctccctccaa 60

caagctaggg agggtttgtt cataccacgg cgagctcgtt tcattatcca tggatgatga 120

gaagcaccac caccaccacc tgataacca caagaaggac gaggagcacg ccgcagccgc 180

aggatacaga tagtccgccg agtacacaga cgccacagtg actgagggtca gctccacagg 240

cgataacgat tactacgagt acaataagga agagaagcag cacaagcaca agc 293

<210> 31482

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D12

<400> 31482

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agaaagaagc agctgtttca aaccacgggg ggcccgaata accatcacgg accatcaca 120

cgcaccaaca ccaccacctg aaacaccaca aaagagacca caagcacgcc gcacgcccaa 180

gacaccataa gaccgccgag cacacacacg acacaatcac taaaccgagc cccacagacg 240
acaaccagta cga 253

<210> 31483
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D3

<400> 31483

ccacgcgtcc gccacgcgt ccgaaaaatc atacaaaaat tttttataca aaacaaaact 60
aaaaaaaaa cgaagattta aaaaaaaaaa caggaaaacc aaaaaaacca aaaaaaaaaa 120
aaaaaacggc caacctctct ataataccca agtttacata ccctgccatc cacttgcaat 180
agcttccaac accgccaccc aaactaaatt catggcccgcc ttttatccaa ctctattcct 240
gaaaaaaccc aaccattacc caacttatac caattgcca aacttccact ttaaca 296

<210> 31484
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D4

<400> 31484

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gctcctttct tccccgcccg ttggcttttg cttggttgca tcgggccggg cgagccggag 120
aggaaaagct agctagcagc taccagctct cggccggcgg tggtagtctg cctgcagctg 180
gggttagctg caagggttgg gagctagcca tggggagggg tcgggtggag ctgaagcgga 240
tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 300
aggcgtagca gctctccgtg ctctgcgacg ccgaagtcgc gctcatcatc ttctccaacc 360
gcggaagct ctacgagttc tgcagcggac agagcattac caaaacactt gagaggtatg 420
aaaaatacag ttatggagga ccagatactg ctgtacagaa catggagaa 469

<210> 31485
<211> 439
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D7

<400> 31485

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gttctcgcca ctattattct gcacagcatt tcatcaagcc ttctagaacc atctcgccgg   60
cgccacacca caaccgctcg aagcgaagca agcaatggcc ggagtcggat cgaaggccct   120
cgccgttgcc gccgttctgg cggccgtctc cctctcggtg gccgccggcg ccgaggcgcc   180
ggcgcccagc cccgtctccg ccgccgtcgc ggcgtcgtcg cccttcgccg cggccctcgt   240
cgctccgcc gccgccttcc tcttcgccgc cgtccgccac tgagccgatg gggcctcgtg   300
cctgcaggct acctagcagt acttcgccgc ctgctgccgc cgcgcctag atctatttat   360
tggagtgcta tccagtagta ctagtagtag tgagatttct tcggtgctgt cgtgtcgtcg   420
tcgcattttg gtcggatct                                     439

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<210> 31486

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D8

<400> 31486

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actcgtccgc ccacgcgtcc tgtcaataaa aaaaattata taaaaaaaaa aaaaaaaaaa   60
aaataaaaaag aaaattttaa aaaaaaaaaa gaaacaaaaa aaaaaaaaaa aaaaaataaa   120
aaaaataaaa tataaaat                                     138

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<210> 31487

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E10

<400> 31487

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accactcgt cctctcactc ttaccataaa tcactccttt cttttgcgca tactatctaa   60
atactaagt agccttctaa taactcattc cctcctaaat tcacctcaa atagcttcaa   120
cccacaccaa tcttatctcg taaaccaat aattacatgc atcatcgtcc catctccctc   180

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aacctattat caaacatcaa atacccatta ctacgccatc ttcttccact agccattcca 240
cctaattcttt atctccaaat accccatttt tccaaccaaa ac 282

<210> 31488
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E11

<400> 31488

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cttctataat atgattccgg gctaagatta cctcaagata tcttgagccc acacaaattc 120
tattctgtta agccaatgat cagaaccata tgtctctcat cgcaactccac atattatcac 180
accttaaata tgtattacca cacatctgct tcgatgagca ctgccacgta atctatatct 240
tcaaaccgga catttttggc aagcacaac 269

<210> 31489
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E12

<400> 31489

caaacaaacc caacaaaaac agaccagcga aacaagtaaa ccaaaaacca acatcacaga 60
ccctcctaac cataaaaaga caacacataa aaaatataac ccaatcacca cacatcttaa 120
ctcactagcc aatcacccgga aacttcagcc tcaaaaccca cattttaaca acaaaactaa 180
taaaa 185

<210> 31490
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E2

<400> 31490

acgcgttcga ccacgcgttc ttccactcgt tcggactttc ttttactcac tccatcttcc 60

ccccggtgac tttttcatag atgcatcggg cccatccaac ctgataggaa aagctagcta 120
 gcatttacca tctctaggcc ggcggctgta gtctgcctgc agctgatggt agctacaaac 180
 attgggagct agccatgtgg agggatcccc tggagctaaa acagatcgag aacaagatca 240
 accgccagag caccttagtc aaacgcctca acggcctgct caagaatgct tacgaacact 300
 tcgagctctg caacacctaa gtctcactca acattctctt caaccgccga aagctctaca 360
 agttctgcat ccgacaaaac attaccaaaa cacttgatag gactaaaaaa acattatt 418

<210> 31491
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E3

<400> 31491
 cgtccgaccc acgcatacgc ccacgcgtcc gaacactcaa acaaaaaatt atataaaaaa 60
 aaaaaaaaaa aaaaaaaaaa gaaggattaa aaaaaaaaaa aggccgaaaa aaaaaaata 120
 aaaaaaaaaa ataaaaaaca aaaaaataaa aaaactaaaa tattattata aataaatata 180
 aaattaaaaa ataaa 195

<210> 31492
 <211> 167
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E4

<400> 31492
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 agaaatttta taaaaaaaaa aaggcaatca aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120
 aaaaaaaaaa taaaaaataa aatcctatta aaaaataatc aaaacaa 167

<210> 31493
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F10

<400> 31493

accactcgt ccgctgtgtc tgggcttttg tatggtcagg cttttcagag ttgtcatgga 60

cttatggggg tgtagtata ttggttgccg tgaatctata ataaaaacga ggtaaactag 120

gacaatgatg atgtggccgt gtgtatttaa tgtattctgt tcacaattaa aaaaaaaaaa 180

ataaaataaa aacaaataaa ataaaaaaaa acaaaaatac agtatagata aaaa 234

<210> 31494

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F2

<400> 31494

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acacgtccgc caccttaaaa gacaccagcg gcgccacaa caccggcac caacaacaag 120

agagcactgc acaaagcaac aacatcgcaa agcgacacat tcagcaccgc ataagcacca 180

catgaccccc gacacaccca aaggcccgga ggaccgaag aaaaaagacc tacagacact 240

ttggggcaac cgccactgat agccctaggc gaacaaccgc gactactaca acaa 294

<210> 31495

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C3

<400> 31495

ccactcgtcc gccacgcgt tcgaaaattc atactctgaa tgctattcat ttccatactg 60

aaaagttccc gttggtttta taagaatggc agttcttaga tgtcgatttt gatgaaaatt 120

gatcattcaa cgtcactgta agagttgact gccatggttt gtgacaaggt tgccatgggt 180

tgctgcaccg tcagcctact atttgagggt tcatttgcca tcgcaacata tacagacgca 240

cgatcatttt tcttccattc tggagtaata gtccaagcct gaactgtgac attccgtcat 300

gcttatacgt gaaattgtac c 321

<210> 31496

<211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-F4

 <400> 31496

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 agaactccag atcaatcgcc ataacggcac ccacctactc accattccag acttattcac 180
 ttctgcctaa gccaaagcta ccatcgatat cgcttactca aacgacttca ctcaccactg 240
 cagcctaccg ccactaaatg ccgatgctta catagacaac tatcgtatat ctgagactca 300
 tccattgctt gctcaaacca ttttcgaatc atgaataaac atgattttta 350

<210> 31497
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-F6

 <400> 31497

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 acatccggca gacattttta aaaaggcggg gggcccaaca aaagatcccc aacaatcaat 120
 cccaagaacc atctccagat caatcacctc aataccaccc accttctcac catctccaaa 180
 cttcttcaact tcttcccatg ccaatgcctt caacgacata tctcaatcta aacactttac 240
 tcaccatagc atcattttctc actctaactt tctattctta ctttaacaac aatcttacat 300
 ctaatactta tcctttttctt tctcaattcc attaaattat cataaatcat caacaatata 360
 acacacatt 369

<210> 31498
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A11

 <400> 31498

atccggagca gccgcagtc caccgtcctt ttcgccggtc gccctccatc tcctgggceg 60
 tgcctctcgt ttctctgttc aataatcaag atgagccgtg gtggtagtgc cgggtgggtgt 120
 caaagttctc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcac 240
 gttgctgctg gggttaccag ccaaaccaat tactaccaca gggctgatgg tcagaacact 300
 ggcaacttcc ttacggaccg ttcttcaacc aaggtccacg ctgctcctgg cgggtggctct 360
 tccttgggct acctgttcgg tggcaactga tgcccggtgt ggtgc 405

<210> 31499
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A12

<400> 31499

cactcgccg atctgcatca ggctccctcg acccaccgatt ttaaacccaa ccatgcacta 60
 tattgggggg tgtcttcatg aacaggcacg ggacatcctg atgcttgagc tcgctaggct 120
 caactgtggc caaggagag cgcttcacct catggagctc aatgacctgt cactaccatc 180
 aatggcgcta tacaacctg ctacacctgc tgacacacca taccctgcaa gagactgatg 240
 cactcaagca ctttgtgtt ctgcatacca gccaaaccaa tcacgtccac aatgctgatg 300
 gtcagaacac tggc 314

<210> 31500
 <211> 135
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A2

<400> 31500

aaaaaaaaa aaaaaacgag aaaatttttc aaaaaaaaaa gggcgccaaa aaaacacttc 60
 accacatcat caccatcca caactacatc agcttacaca ctatagtacc acatattttt 120
 acataaaact cactt 135

<210> 31501

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A3

 <400> 31501

 cccacgcgtc cgggacctcc caagacctgt catctccagt gaatgcgacg ccgggaaccg 60
 ccggcttttg gtcctctctg gtcgtgcgct tcgcccgtct ccacagttgg tgcagaaaca 120
 gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atggtctact 180
 gccgccgtgc tctctcacta ccagtgtccc accaccgcca tgcattgttt gccgcaattg 240
 ccggctacta tactcctccg tctccaatca tcaggcacca gcttgcgacg caacttgat 300
 tctctcctct tctctactct cgttgcaaca aggcagtcca gtgaatgaga cggatggccc 360
 caactgtgcc ttagctgat gcat 384

<210> 31502
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A4

 <400> 31502

 cggccgacca cgcgtccgcc cagcgtccg cggactcatg cgcggacgct agatccgaca 60
 cgtggacaga caccagagcg gggctttaa aaaagatggc gggccaacaa aacagctaca 120
 ccatcacacc ctgcctctcc tactcccaca gcacggggaa cggccctcc gcgtcctgct 180
 tcagcaacat caggaacctc aagagcgcca acagcaccac cgccaacaag cagccgaca 240
 gcaactgcct caagaa 256

<210> 31503
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-A6

 <400> 31503

 tgtcgatcca attgtcactt gctctcccat caacaagcta attaaggccg gtccatgcgg 60

gttctagctc gtttcattat ccatggctga ggagaagcac caccaccacc acctgttcca 120
ccacaagaag gacgaggagc aggccgcggc cggcgggtac ggcgagtccg ccgagtacac 180
ggaggccacg gtgacggagg tegtgtccac gggcgagaac gagtacgacg agtacaagaa 240
ggaggagaag cagcacaagc acaagcagca cctcggcgag gccggcgcca tcgccgccgg 300
cgccttcgca ctctacgaga agcacgaggc gaagaatgac ccggagcacg cgcaccgtca 360
caagatcgag gaagatgtcc cggctgccgc tgccgtcggc tccggcggtt tcgcctttca 420
cgagcaccac gagaaga 437

<210> 31504
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-A7

<400> 31504
atccgttggt tccgcgcctg ttggtccgtt tcgcacgccg gattttttgca tcgagcgcgg 60
agatctacaa caaaaacatg gagctacgac gcgactccca aggtacaatc ggtaattatg 120
ttcaaacaat ttttaagtcg ttctgcgctc cttctattac gagcaacggt ttatattctg 180
tgcttgcata atgaatcgaa gaaatcctga caccaatcga actgaagatc ctgaaacgca 240
cgtaataacc gttgacgtcc gcttcaccca gctcgatttt cagtcttgta atactaatcg 300
ctccatgagt ctgaagtgtg caaaaattta ggtcgcagct acacaaattt acatgctggg 360
tctgttcaac ccgtgaatct nctattttgg aaaggtcaca gcgtttttat ttcattctat 420
attata 426

<210> 31505
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-061-Q1-K1-A8

<400> 31505
tcgtctcgtc ggacgccccg tggggtnnct catgtctctg cttegtcgtc tctnnngtgg 60

agctacctan nggtgacncg gtgcgcggac tcgttcctntt nacgccactg tggccgctga 120
 nntccagccc tcnnngtcgg cttttctnnn tcgcacctn cgctactncg tgcgggtcan 180
 gnncacctca ccaggggttc atttaaattg gnnacagagac cgggggtgttc taaccccnnc 240
 tcttnntgga aggggtatgn naagcatggg tgaaggggca gagaacgnnn gagtcattct 300
 tcnnaccaag ccnnncttcc ttggggatgt cttgcaagcc caaatctt 348

<210> 31506
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A9

<400> 31506

gaacagtgcg tgctaattgt gagcttattt aaaaggatgc agtggtgtgc ctaaggagga 60
 accagacggt aagagttgtt ggatcagagg cactgccgaa gtctggaagg atttctcgct 120
 atgatgtgaa gatcaaacac aaagcatggg aagagcaaga ggagccaggg aaagcccaag 180
 acaaagcata gaaaatccaa gttaatgcaa gcgggattca agaaatttcc aaggaaatat 240
 taggcaagac agataaattg ttggaagcac tggagccaaa ccttgacaaa gaagagaaga 300
 ttcaagaaaa ggaagagcaa cacctcgaag aagtggataa tgttcaagag aatgaaggca 360
 aagtccaatg cccggcagag aaaatccaag ttaatgcaag tgggattcaa g 411

<210> 31507
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B10

<400> 31507

cccactcgtc cggccgttct agccaatctt ctaacctgac aatgtcttcc gcccggggcg 60
 gcttttctag gccggggctg ggagccaata cgaggtgctg tgccccgctt ccaacacagt 120
 caataagtaa aacaacgtca caaggagtgg taattcacia gcgcccacag gctcccacat 180
 atcctacacc tatcaagtca tttcaciaag actgactaga gtcaaactca acaggtacta 240
 ctttaaacy 249

<210> 31508
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B11

 <400> 31508

 cccactcgtc cggcactccg accgtttctt atggagcttc gaggccgccc gtcgcgtcgc 60
 gtttttcaaa caggctgagg caatggcacg ggcccttcgt ggcgcgaacg cccataacatg 120
 tct 123

<210> 31509
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B12

 <400> 31509

 tgcgggcagg atgtgccaaa attgacccaa tgggatgttt ggaggctggt gctgtatcac 60
 agagtaaggt gtatgagtat atctaaaaaa ccctgcttg caaccagaca aggcaatcca 120
 tctatgaatt tgtgaagaga agtgagggtt aaaggcttgc agaggctgat aagtcaaattg 180
 tcatc 185

<210> 31510
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-061-Q1-K1-B3

 <400> 31510

 cccactcgtc cgaaagaaaa aaaaaaaaaat aaaaaaaaaa atttataaaa aaaaaaaaaa 60
 aaaaaaaaaa aaggagggat tccaaaacaa acagacgcat acatacaaca aaaataacat 120
 caaacatatt acaaccataa atacaattca acttccatca atctacaacc taatac 176

<210> 31511
 <211> 447
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B6

<400> 31511

cccacgcgtc cgagcgaacg aagcgacttt taccctgaat agggggatat cggagttcgg 60
ggatgatggc gcggacacgg agcctctcga gatcctgctc cacctcccct tgttagccga 120
ggataagaac gtcccatatg tatttggtcc atcgaacaaa gctcttggcc gtgcttgtgg 180
tgtgacaaga cccgtcattg cttgctcagt gaccagcaat gagggtagcc agctgaaaca 240
acagatacag ggtctcaagg actcgattga gaagcttctc atctgattta cctaagatct 300
ttcagtgtga tgggccttgg cgacacattt ttcagaggct tggactggtg atggtgtctt 360
gtttacatta cgctttccaa actatatctg aacactgcta agtcaatcat atttgaattg 420
tgcttcactt tatatctgtg attgtca 447

<210> 31512

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B8

<400> 31512

gaagagaaga atgttctgga cctctacatt ctctcctga gatactcgag cttgttgagg 60
gagaccatac ccaaacatcg cgattataat gcatttaagg ctagagaaaa ggaattcctg 120
aagaaaggcc cacacaactc tgagaaaatt cttggtattg tcaatgagct agagtccctt 180
aagccagttg tgcagcaaca aattgccacc ggtaatagca ggggtgcaga tgaacctaat 240
ggtgtatatg gaacctatgc tgcaagtagt gagttggagc accatacccc aagcccatat 300
gtgtcgaagt cttgtctgg aagccctact agactactgc agaaaccatt acctggttca 360
aagcatcaag cagctatgtc gcacaatgtt caaccttata gacatgctat tgaacctct 420
accaacatgc t 431

<210> 31513

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-H8

<400> 31513

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gatagggggg gaatcctcaa gtgctcggtta cataaaccct aacctcggtg gattcgcagc 120
aaaagcccac caattggaag ccctccgatg ttccagctgc atgctggagc tgagccgtgc 180
tcggtttgac gaaattttgc atcccttctg tgcttgacc acccgattga ggctgtttct 240
ccgagggggc gtgccagcgg tttecgggcc caggctccta cctgtgctat ccggcgccgg 300
atccgggttt gttccggtga gaggtcgggc ttttggtggg gtctgtacag cttggagctc 360
aatttgccgg cctgagttgg agtcgcgact gcngtggcgg tgattgaggt agtcgcgtcg 420
aattggcacg cg 432

<210> 31514
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B9

<400> 31514

cccacgcgtc cgcatgacct actgctgctt taacttcggt gatgactagg gtgcgggggg 60
cattgtcaaa gccttcgcac acataaaatg cactgtgctg gcccttgcca agatcattgc 120
caccaaaccg gacgatggag cgaagattaa ctatgtcgaa ggtcacatgt tcagtttcat 180
tccacctgct caaactgtcg tgctaaagct tgtgctgcaa cacctgaccg atgaggactg 240
cgtcaagctc ctggctcaat gcctgaaggc gattccttca cggaaggacg gctggtaaag 300
tataatcggg gatattatga ttgaccactc tgggcttatg ctggatacct aacctctgat 360
ggaca 365

<210> 31515
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C2

<400> 31515

ccacgcgtcc gaccaggcgc acacaacttc ccccgagcca tcgttatcca ctcccccatg 60
atcccatcac cgaagtttat aaacaaccgg ggccaccaca aacaaactga actggacacc 120
aacatcctat cggttaaccc caactgcact ctcaacaccc gcaattacac tgaagtcaac 180
ccctacctga ccaacataat ctacgccagt taacctca 218

<210> 31516
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F6

<400> 31516

gcgcccacgc gtccgcccac gcgtttgcct acgcgtccgc ccacgcgtcc gccacgcgt 60
ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaacaaa aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaggggtgct tcattaagaa 240
tgacaaatt 249

<210> 31517
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F8

<400> 31517

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acagtgcgc aacgacgaga ttggtggtga cctggatgag cacgttatag agcccgacat 120
tgccgatcag taccattact agaagacaat gtgccagcta aacacgtctg ggcgcttcat 180
cattggttga cctgacaggc acgcccgcgt cactggacgg cagatcattc gagacaccta 240
cgggtggctgc tgagcccact gac 263

<210> 31518
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F9

<400> 31518

cccacgcgtc cgaaaaaaaa aaataaataa aaaaaaaaaa aaaaaaaaaa aaaaagaaga 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaataaaaaa taaaaaaaaa aaacaaaaaa aaaattaaat aaaaaaaaaa 180
ataaaaaaaaa aaaaaaaagt aaaaaaaaat aacataacaa aacttaaaca aaaataaaac 240
aaaatccctt tataaacaata taacaaatta tctaataaggc cttaacatat aacgcttccc 300
aacatttgcc aatcctaaat gccca 325

<210> 31519

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G2

<400> 31519

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gggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc agcacgacga 120
gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca agccagtcac 180
ccccgagcag tacctcgacg agaagacaat cttccacctc aaccggtctg gccgcttcgt 240
catcggcgga cctcacggcg acgccggcct cactggccgg aagatcatca tcgacaccta 300
cgggtggctgg ggagcccacg gcgggggcgc cttcttcggc aaggaccga ccaaggtgga 360
ccgcagcggg gcctacgtcg cgaggcangc tgccaagagc atcgtc 406

<210> 31520

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G3

<400> 31520

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gaggggtgcgc ccactccctg aggaggtctc cgggcgagac gtaacttcgt tcgggactac 120
 agttcccgcc cgagggttggg ctcggtgag gcgagatcgc gccccttggg tagacgaagc 180
 cttgacctga atcgcgcca tcagtctctg cagcttgcgc tgatggtggt taccagccgt 240
 gtttaggagt gttgggggta cccctaatta tggtagccga caaaaagata ctagtatctc 300
 cactatttgg gtctattcgg tggaccgaat agaccgaacc aaaattgtga gtctattcgg 360
 gttcggttcc taaaatta 378

<210> 31521
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G4

<400> 31521
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 ggttaactca tctagagttc aggatgaagt catagctccc aacaagatct ggattgttca 120
 ttgatgcttg gattgcctga tcacgataag aatgtgttga aatcagcagc tatgttttct 180
 cggggagatt cagctggcat tttccatgaa gttttgcacg aagtgtatct tgtaccatat 240
 tgagttcagt tgtcggataa agttttgttg gtaggtcaga aaggctgctg caagtcacg 300
 gtgtaaattt tcttttatta gtttcattaa tgtcctcaat agtcggtggt tccaagttgg 360
 agaaaggaaa gaac 374

<210> 31522
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G5

<400> 31522
 aaaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaa aaaaaaaaaa aaaaaggaaa 60
 gaaaaagtac ccacataacg tggtagcat atctagcaaa aagatgaaac taaaatggaa 120
 ctaccgttcc cgcccgatgc aaagctaagg tgcggggaga tcgggccctt gggtacgacc 180
 aagccttgac ctgcatcgcg cccatcaatc tctgcagctt gcgctgatgg tgggtaccag 240

acgcgttttag gaatgttggg ggtacccta attatggcac ccggcacaca gatactagtg 300
tctacactat ttgggtctat tcggttga 328

<210> 31523
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G6

<400> 31523

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tcatgcctct gtacgacgcc ctccgaggga ccatcagctc cagatcgtgg gggctgcaga 120
gagaggctcga ccaaggcatg aacgaccggg tgccggactt cgtgttcctg gcgcacgtgg 180
tggaacgtggg gtcgtcgatg cacgtgcctt tcgccttcgg ctctgcagc tcgctgccgt 240
gggccatgcg ctccgtgctg ctcccgtctt ggcccgctgc ctccgccttc atgc 294

<210> 31524
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G7

<400> 31524

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gcagcagcgc agccggagga gggagagcga agatgcgccg cgtcgcgctg ttgctcgtcg 120
ccgccgtgtg cgcgctggcg gcgccggctg ccgcggtcgt cactgacggt cttctcccga 180
acggcaactt cgaggatggc ccgcccaagt cggcgtcgtt gaacggcacg gtggtgtcgg 240
gcgcccacgc catcccgagg tgggagacgt ccggttcgtt ggagtacatc ggtcggggc 300
acaagcaggg ggacatgctg ctggtggtgc ccgcaggcgc gcacgcggtg cggctgggca 360
acgaggcgt 369

<210> 31525
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G8

<400> 31525

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cggcctccgc ctccgcgtgc gcgtgcacgc gcgcgggccc gccgcagccc cgccaccgcg 120
cgcgtagtgc cgccgcgacc gcggcggcgt tcttgtccg ccgccaccag cgaccgccac 180
ggcagataat aaacatcgtc gacgaccgcc gtgccagctc cgatctccgc tgccggcgac 240
ggctcctcac ggcgcgaggg gagcgcccg cccacgacga cgacgaggac gaggagcaga 300
cgtcgtctgc tgggtgggtgt tacggctcgt tcggcgcggc ggtggcgctg ttcaaccgcg 360
gcgagtacca cgcgtgccac gacgtggt 388

<210> 31526

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G9

<400> 31526

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acaccttcgc cggcgagagc atggcgatgg cgtaccgtgt cctggaggtc accctggtgt 120
cggcaaatga cctcaagaaa gtgtcgctct tctcccgac tcgcatctac gccgtggctt 180
ccatctccgg attcgacctc cgcctccctt cccacagcac ccaagcagac cacagcaacg 240
gctgcaaccc ctgctggaac gccgtggtac acttccccat cccggctgcc gctgacaccc 300
gcggcctcgc actccacgtg aggtccgnc ggcccccccc cagcgtctat acctgggcga 360
tcgcgacatc ggcgaggtgt ttgtgcccat cgacgacctc ctggccggcg ccgacaaggg 420
tggcgatcc 429

<210> 31527

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H1

<400> 31527

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gcatgggtga aaattgggtc ttatgtcttg ctttgtcaag gctgctgttt ctgcacttca 120

aaaccagcca attgtcaatg ctgtcattga tggatgatgac atcatataca gagactacgt 180

agacatcagt gttgctgttg gcacttccaa gggccttggtg gttcctgtta tccgagatgc 240

tgataccatg aactttgctg acattgagaa agggataaac aaccttgcaa agaaagcaac 300

tganggggcy ctctcaattg atgacatggc aggaggaaca ttcaccatct tcaacgggtg 360

tgtctatgga agcctnctca gcacacctat catcaaccct tcacagtc 408

<210> 31528

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H10

<400> 31528

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gttaagcgca aggcgggtcc cgccgagtc cccgccgccg tggaggcagc caccaccaac 120

caccgccacg agccggcgct ctcggagccc aagccacgcy gctccatcta ctccccatc 180

actgacgacc ctgccgaacc caacgccgcc gaagaggacg aggacgaggg cgccggcgac 240

gactaggacg acgcggagga cattgtcaag ctacttgagc cgctgtcgcy ggag 294

<210> 31529

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H11

<400> 31529

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tgcaagaggc cgttccagct ggcgcggctg ctgacgtacc accaccaccc ggggcaccgg 120

ccggcggtg tgtccaggtg gcggcggcag caccagcagc atcagctcgc ggacgagccg 180

cgcgctcccc ggccgcaggc ggtggtgctg tacacgacgt cgctgcgcgg ggtgcggcgc 240

acgttcgcgg actgcgcgcg ggtgcgcgcc atcctgcgcg gcttccgcgt ggccgttgac 300
gagcgggacg tgtccatgga cgcggcgctc nccccggggg gggggaggte caggcgctgc 360
tgccgcgcg 369

<210> 31530
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H3

<400> 31530

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aggagtatgg gagcgatga cgcgccgctc cagaagaaga agggcttcgt gctgccgagg 120
cctaagatgt ccaacgctga cctgggcagg atcatcaact ctgacgaggt gcagtctgtg 180
gtgaagccac tcaacaagga ggtgaagcgc acggagaaga ggaagaaccc actcaagaac 240
atggctgctg tgcctaaaact caaccctac ctcggcactg cccggaagat ggacaccctt 300
gctgaggctg ctggtgtga 319

<210> 31531
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-H4

<400> 31531

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ggaaatcctc aagtgtcgt tacataaacc ctaacctcgt tggattcgca gcaaaagccc 120
accaattgga agccctccga tgttccagct gcatgctgga gctgagccgt gctcggtttg 180
acgaaatctt gcacccctc tgtgcttgga ccaccgatt gaggtgttt ctccgagggg 240
gcgtgccagc ggtttcgcgg ccaggtcct cacctgtgct atccggcgcc ggatccgggt 300
ttgttccggt gagaggctcg gcttttggtg gggctgtgtac agcttggagc tcaatttgcc 360
ggcctgagtt ggagtcgcga ctgcngtggc ggtgattgag gtagtcgcgt c 411

<210> 31532
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F5

 <400> 31532

 gcgcgcacgc gtacgatcac tgtgcttttag tacaagcaag ccaaatatgc acacgagtgg 60
 gagtcgacaa gctcactccg agaggaaagg atgaagtggg ggcgtatgag gccactgcag 120
 aagcgaaaca tctaatatgt gagcggagat ccctgaattg catggatcga gtgaactagt 180
 ctctgagaaa ctatggggag tgaacttgat ggctctgtga aactgtgcta tgccaactag 240
 atggctatat gaaacgacca tgtgaag 267

<210> 31533
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-H6

 <400> 31533

 cccacgcgtc cgataaaaaa taaaaataaa aaaaaaaaaa aaaaaaaaaa aaggaggaggaa 60
 t 61

<210> 31534
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-H7

 <400> 31534

 gcccccggtg gccaccttgg gctctttttg atctggaccc agagcgcgtt caataagctc 60
 gaggaggtgt atgggagcta tgacgccccg tcgcagaaga agaagggtt cgtgctgccg 120
 aggctaaga tgtccaacgc tgacctgggc aggatcatca actctgacga ggtgcagtct 180
 gtggtgaagc cactcaacaa ggaggtgaag cgcagggaga agaggaagaa cccactcaag 240
 aacatggctg ctgtgctcaa actcaacccc tacctcggca ctgcccggaa gatggccacc 300

cttgcctgagg ctgctcgtgt gaaggccagg aaggcgaagc tcgactccaa gaggaccaag 360
 cttacccccg 369

<210> 31535
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-D3

<400> 31535

cggacgcgtg ggcaagccga catatgtcgg ctcagcctct cctacctcac gccctgtca 60
 ctgaggtgcg ccgtggagct tggcatcccc acggcgatct accgccatgg cggggctgcc 120
 tcagccgctg agctgggtcac ggcgctgtct ctcccccca ctaagctgcc gttcctccgc 180
 cgcctgctgc ggctcctcgc cgcgtcgggc gtgttcaccg tcgacaagca gagcacggag 240
 gaggagcggg accgcatcag ccccggtgtcc tacctcctgg tggacggcat ccctcacgag 300
 gaccacatga accacaccgc tctggtgctc acctgcacct cgacgcgcta catcgaggcg 360
 gngatagggc tggcggagtg gttcaagagg gacgtggtca cgttaccgtt cgaggagc 418

<210> 31536
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D5

<400> 31536

cccacgcgtc cgaacaaaaa attagatata ataactaata acaactaaaa aaaagcagga 60
 aaaatctcca aaaaaactag gcctccacac tatcaacaac ccccatctct acatctgcct 120
 aaatccatca tcttatcact tctctaactc tccctaccac taatctaccg ctctccttc 180
 tacaacttcg cgattctaaa aaccctgg 208

<210> 31537
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D6

<400> 31537

gcgcggggcca ctcacatcac cgcatttaat gcaaagcata tactaaccac aaaggggcgg 60

gggcatgagg gacgcagtga tgtacataaa gacgggagcc aacctctgcc cagccgatcc 120

gatgattcaa gaaaactcga cccatcgcac gggaccgagc acccaaaggc agcaccaaaa 180

agaatgcccg agaaccaaca ggggaaaggc cgcataacgc 220

<210> 31538

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D7

<400> 31538

cggacgcatg ggctgacgcg tgtgagtaca gacctaacct gatcaacaaa ttggggggggg 60

cgttcgatgc tcatctagga gacctcacgc agaggcaact actagctgcc ggtgccacaa 120

tcaatg 126

<210> 31539

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D8

<400> 31539

cttcattcaa ctggaaccac aatccttttt atttgaagca gagactatgg tggaaggtac 60

ccttgatgga ttcacatttg attcagatga ggagggtgac aaactctatg aaccacaggc 120

taatcaaaac gatctgaata ataacgaaga tgaaggtcaa cctaaggcaa agaccaaag 180

gaaagcagag aaaacaacgg ggaatgcacc gaagaaggcg aatgttgag gaaagggccc 240

taaaatgggc acgaggaaaa cccaacctgc gaagagaggt aggaaggcta agaatgatg 300

acatgttgat ttctctggat aagaagaaaa agtctattga gaacctggat agctggcaac 360

aaagatgtga atttttcaac gcatagtcac g 391

<210> 31540

<211> 233

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D9

<400> 31540

cggactcctc tcattactcg attcttttct catctaactc aatcaacaaa tgagatgggt 60
 aaattacaac gtataaccgc aacttttaaac tcaaactaat actacaatct atttacacaa 120
 acaacatcat ccacatttac cgaaaatcct taattccctc aaccaaaca accagatcca 180
 taaccaatac ttcaacacat aactttcaat aaaaataatt cccaacaca cat 233

<210> 31541
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E10

<400> 31541

accactcatc caccactcc tctacctaca catacacaag cacccaaata acgagaggat 60
 tatttaacaa cttgttggc ataccacaca ccataccaca tcaaacctca cgtaacacca 120
 atagcaacaa tcacatccac tacgccatca tccaactata caccataccc atcaaatacc 180
 cccctcctt cccacacgac cacccttacc cccaactctt cctcttaaaa caccctat 238

<210> 31542
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-E11

<400> 31542

cccacgcgtc cgcggaagcg agtgtgaata aagggccgcg atggaggctg acagggcagg 60
 ggcaagatcc gaggttgaga tgaagaaaga gaaattgcgc cagttgttga gttcaaccag 120
 tagatatgct gataacttat ggtacataga accgaacacc taccgaagaa gggaccgggt 180
 tagaatggac tatcacagaa gcttaaggac acttattcat tgacacttgg aattgggatg 240
 cttggaggta acaccaactg gaatgatgga ctctcaatag ctgaaagact tgtcaaactc 300

catgaaaggg aaagtgattg gtggtatgca anaaaaaaaaa ggtttacatt acctgaaagg 360
gcattngctg ttgattgggt ttttgctgat gggccacctg ggaatgcaag gaattatgat 420
aacaatg 427

<210> 31543
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-E12

<400> 31543

agaagtcaaa cctgggttca cttggttccc atcccccaa gtttcgacct cagtgggtga 60
gccatacaac agtgtcctgt ccaccactc cctcctcgag cacactgatg tggctatcct 120
gctggacaac gaggccatct atgacatctg ccgccgttcc cttgacattg agcgcccaac 180
ctacaccaac ctcaacagge ttgtgtccca ggtcatctca tccctgaactg cctccctgag 240
gttcgatggg gctcttaacg tggatgtgaa tgagttccag accaacttgg tgcctaccc 300
gaggatccac ttcatgcttt cctcctatct gggggcctcc agtcatctct gctgagaagg 360
cctaccacga gcagctgtct gtggccgaga tcaccaacag cgccttcgag ccctcctnca 420
tgatg 425

<210> 31544
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E2

<400> 31544

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cttttgacgc gtgtaagcac aaacgttttag acagaccgag agcagcagcc agtgaacctg 120
ttatggtttt gcagttgttc agtacggcag aatgttggtta aaccgtagct cagagatgta 180
ttaccagtgg cgctaagctg tactgttacg gtgtataatg cggatacaaa taaacaatct 240
agcgggtcat taaagcctga actcagataa catgttct 278

<210> 31545
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E3

<400> 31545

aaaggaagtt aattctgtaa accagattct tatatatattgc tategaaaag gttaaagagc 60
ctgatagaca acctaataatt cttgcggaat atatagcttt ccaattaaaa aatagagttt 120
cattccgaaa agcaatgaaa aaagctattg aattaactaa aaaagcggat ataaagggaa 180
taaaaatcca aattgcgggt cgtctagcag gaaaagaaat tgcacgtgcc gaatgcatca 240
aaaagggtag actacccctc caaacaattc gcgctaaaat tgattattgc tgctatccaa 300
ttcgaactat ctatggagta ttaggtgtca aaatttggat attcgtagaa gaagaataac 360
taaccatgtc ttcccattcc gccagtgat agaataaaaa agacaagaac cttgtttttt 420
c 421

<210> 31546
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E4

<400> 31546

cgcacgcgtc cgtatttatg taaaaactgc ctgtcaaaat gattaattgg aattccagtt 60
agtcattgaa gaaatgaaaa agggattaaa gaaaataaaa aatccaagtc ttaaataaaa 120
gggtctgggt ggaatcataa agtgtggtag aaagaactac atatagtttt ttctaccaca 180
ctttagattc tttctattat attatcttga atctacatag aatcgattag tagattgaaa 240
tagtagtcta attcaacttc ttttttcact gcatccactt aatttcaatc aagtcaaaat 300
caaaaaaatc gaagataatt cttcattgaa agaatccaaa gagggggaga aaaataatac 360
gagaatagac tagaatagat tatagtaaaa gaaaaaaagt aaaaagaaaa aacctacgaa 420
tctttcat 428

<210> 31547
<211> 427

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-E8

 <400> 31547

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 cgcgcgcaag gcagcaaacg cgccgcgcac cggaaggccc cggggagctg cacgaggtgg 120
 ccccatgtcg gcatggctgc tacggccgac gccgctggcg tcgagttccc gctcattggc 180
 gttgccgtgg ccacgctcat cgtgacggtc cttgtcgcg cctgatgacg ccggcgacga 240
 cgtccctggc accaggcgcc tctggtggag gggaaacccg caccagaggc aggctgcgcg 300
 gtcagcgatg gcgggacgga cgtcatcatc gtcggcgccg gggtagctgg atctgcgctg 360
 gcatacacgc tncgaaagga tggccgtcng gtgcatgtca tcgaaaggga tctgacagaa 420
 cctgaca 427

<210> 31548
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-E9

 <400> 31548

 aaaggtctga aaccccgctc tctacttttg gatatatgag tacttggata actggatggt 60
 tatgggacat cttttgtaga ggtccactaa gcatoctata ttacacctca tgtatcagga 120
 atagctaattg gcacatagtc aatggaagga tcatatgttc cctctttccc atgatatatg 180
 ccctctttta tccgtaagtc taccttggcc ttctactctg ccgctaaaag ctctgcattc 240
 tgcattgtcg acaggagagt gcttgctata tgactgcaac ctatactggt ggcggatcac 300
 cattctgaat agggc 315

<210> 31549
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F1

<400> 31549

cccacgcgtc cgcacagaac ttgagcttta ttacatcctc acctctaata cagcaagtt 60
tgagtcgatg atggcactcc caatggaaaag gaggaagagg tggcttatga tgcagctaag 120
gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180
tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240
gatggcttta tgaaactact atgtgaag 268

<210> 31550

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F11

<400> 31550

cccacgcgtc cgcacagaac ttgtagctta tgacatcctc acctctaata cagcaagtt 60
tgagtcgatg atggcactcc caatggaaaag gaggaagagg tggcttatga tgcagctaag 120
gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180
tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240
gatggcttta tgaaactact atgtgaag 268

<210> 31551

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F12

<400> 31551

ggggacacga tcgccatggc cttcacatcg accgccgccg acgtgctgtg ccggccggcc 60
gtggccgaac tccgcttggc gccgtctacc ggccggggcg gcgtgtcgtt ccgcgcggcg 120
ccggcgccgg cgcgagggtc cgaggcggca cgcgcgaggc tgagctcggc gctggtgatc 180
agcctgagca cgggcgtgtc gctattgatg ggcacgatac gtcttcttca acttccagcg 240
ggagaacgtg gcgaagcagg tgcccagca gaacggcaag acgcacttcg acgccggcga 300
cgagcgcgcc aaggagttcg cggcccttgg attttttcca agtctaacga cccagtgggc 360

ttgaacctcg tcgacgtcct cgcctggagc tcgatcgcc acata 405

<210> 31552
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D12

<400> 31552

cccacgcgtc cgctctcgcg gacatactgg acagctcacc cgattccggc acggaagaga 60
ttgtgcaggc gatggtcaat gcatcagcct cagttggctc accatcagag gagaagggttc 120
aggccaggat gcagatgata acccgggtgt tcctcaagag cctccagccc ggtgacgtgg 180
tcttcaagaa ggtatcccggt gcggtctact gcgccttcgg tggcatcctc ttaggtggca 240
gtggtcctaa gggccagaag ctggcggacg cggcattgcy ccgtatcgcc gccaccaagg 300
ttgtccacag ggtgttaaag gc 322

<210> 31553
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-F2

<400> 31553

accacgcga tgcgggacgc gtgggtggag aacgagcact acattgagat cttcatcagg 60
gagatcaagg tcgtcacggg cagcgacagc agcaccgccg tcaccttcgg ctgcaactcc 120
tgggtgcact ccaagttcga caaccggaa agcgcattct cttcaccctc aagtcctacc 180
tgccgtccga cagccccaag ggcttgagg acctgaagaa gaaggacctg caggcgcttc 240
ggggcgacgg ccacggcgag cgcaaggcgt ccgagcgcggt ctacgactac gacgtgtaca 300
acgacctgtg cgaccgggac aagaaccccg nccaccagcg gcccggtgctg ggcggcagca 360
agcggtagcc gtaccgcgcg cgctgccgca ccggtcgccc ccagaccagg aaggaccccc 420
gaggcgatgt gcgccatggg cacaacta 448

<210> 31554
<211> 408

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-F3

 <400> 31554

 gtttcacaat ttaatgaatc ctccacttat ttgatgggat ggttaagaga ttacctagtg 60
 ggtaaactct tcacaactta ttaatggata taatcctttt gggatgaata gtttatcagt 120
 atgggcttgg atgttcttat ttggacatct tgtttgggct acaggattta tgttcttaat 180
 ttcctggcgt ggatattggc aggaattaat tgagacttta gcatgggctc atgaacggac 240
 acctttggct aatttaattc gctggagaga taagcccggt gctctttcca ttgtgcaagc 300
 aagattggtc ggattagccc acttttccgt gggttatata ttcacttatg cagctttctt 360
 gattgcctca acatcaggca agtttgggta atttagttat tttttttt 408

<210> 31555
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-A9

 <400> 31555

tctccgaccc gaccgctacc cggtggcgga cgcgtgggag gacgctgtg ctgtacgct 60
 gggcggaagc gtgggtggaa gccgaacgt gaactacacc gactggctga agcagcacag 120
 ccccttctac aaggacgact ggctggtgtt ctactacacg gcggggcagg cggacgtggt 180
 gcaggtggac gaggtgggct acaacaagt cgactccacc aacgccatct acaactacag 240
 caaggggagc agcttcgcct tccagctcaa cgagaccaag acctactact tcactctgag 300
 ctacggctac tgcttcggcg ggatgcgct cgccatcaag gccgagaagc tgccgcnnc 360
 cccggggcgt cgcgcgcgc gtccgtcagc gaccgctccg ccgncgccat cgcgcgcttc 420
 gccaggtccc acgcgcccgt catctacgac 450

<210> 31556
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B10

<400> 31556

cccacgcgtc cgcccacgcg tttccctct cgtccgcgga cgcgtgggcg aacgcgtggt 60
cggacgcgtc gtcggacgcg tgggaagaac tgggtaatca tgaccgagtc cctgagacgt 120
actagatgat aaatgtacta cgtcgtatca tggccgtgga aggggcccgtg gggatcgtgg 180
tagttataga ggctgatact gagggggata cagtcgtggt ctaactgctg ctgctacatt 240
cattgaagat caagctcagt taccaagcct cagtgggaag tgaaaggctc acaaatgatg 300
atgtcaccta tcgttgtgtt gtctgctagt tggatattat ttatatttaa att 353

<210> 31557

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-B12

<400> 31557

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ggcaaatcag gctgtggagc gggcagctgg tactgatggc caaaagataa catacgggtg 120
cataaaacac cgtttgggcg atctatttta tcgcctagta tctcaaaagt tcgaggatcc 180
tgccgaaggt gaagaagctt tggtcggcaa atttaagaaa ctgtatgatg acctcaccac 240
tggtttccgc aatctcgaag acgaggcacg gtgaactagt gtagattctg tgtaaacaag 300
gactgccaaa tgttttataa gatacataan aaatTTTTTT tgtagattga gatcatctgt 360
aagaattatt ccacccgttg caccatctct tcgccaccac tgtttttagtc atcggtgcct 420
gatgggca 428

<210> 31558

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B3

<400> 31558

caaaaacatg gatcaaaatc aacaagataa gttgaacatt tcgggcggtc taggaaagac 60

agtgaccatc aaaggagttt ctcaaatcag gctggtgttt ctacagtaga tggactagaa 120
 gatccccca tgggtaagtc tcagaatgtg catacgttta atgaggaaga atttgagaga 180
 agtacggcag cagcggctat gaaagaggct atggataaag ctgaggcaaa gttcaaacaat 240
 gccaaaggaag tacgagagag agagcgtgat gcaaagctta gaaatagaga acaacaggaa 300
 cgagataatg taataaggtc gtatgccag gatcgtgagg acaaagagag aaaggaaaaga 360
 ctagaacaag aaagagagat gaggca 386

<210> 31559
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B4

<400> 31559
 gaaaaaaaaag gtgcagaatg tcctaaaaaa ataaaaaaa aaaaaaaaaa aaaaaaagga 60
 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaca taaaaaaaaa acaaaaaaaaaa 180
 agaaaaatga acaaccacta caaaactaat gaagtcacct aaaaaaatga tcaaaagacc 240
 aata 244

<210> 31560
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B5

<400> 31560
 atcgtcactt acagcaatat tatcgcttca gcctgtgtag ccacggcgat gaccacaatg 60
 gttgttgggt ccgcggtagg ctggcgaggc ggtgcttggg acgctcgaag gggcttgaga 120
 agagagcaac aaaagctggg ggggatgggt cacatgaagt cgcacgacag atggcactgg 180
 cgcccttca acaggctcag gaacagcagg ttagcctcca agaacaagcg cgccgacgcc 240
 catccaagca ccgaggcccc ctcgacgtca agcaacacgg cctctgcgga cgtagcagt 300
 gcttctcagc cggcagcggg cagtgcata gcttatatat caacaacaat ggactaggat 360

gtgaagctgg ggccgcgtag tagtccataa gacttggttag aacagaccat gtgagt 416

<210> 31561
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B7

<400> 31561

gcaagaatgg aacctgcccc tgtctcttgc ccgatgggaa gacctcaggtg acagtggagt 60
accgcaacga ggggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc 120
agcacgacga gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca 180
agccagtcac ccccgagcag tacctcgacg agaagacaat cttccacctc aacccgtctg 240
gccgcttcgt catcgccgga cctcacggcg acgccggcct cactggccgg aagatcatca 300
tcgacaccta cggtggctgg ggagcccacg gcg 333

<210> 31562
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B8

<400> 31562

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ctccgggggtt cggtttcgtg ggtgagcga tcgagatggc ggcgtcggat gttgagtacc 120
gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 180
gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc 240
gcggcttcgg ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300
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<210> 31563
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C1

<400> 31563

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actgtggaat ggtttctgag cagagcgtgg cggagctgaa gcagaccctg ctggcgacca 180
cgctggagct ggaagctgcg aggggaagagc tgaagcggaa ggag 224

<210> 31564

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-C10

<400> 31564

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catgaaatgc agatggagtc ctggctgcct tgagagtatg atgcataaca gtgatagctt 120
cagtgcggag tctgctataa ttgaaactga tgttttcatg gagaaatcaa ccccgacagt 180
gaagtttgag attcagcttt acaaaacgag ggatgagaag taccttcttg acctgcaaag 240
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agttcnttga gcctgacatg attggctttc cccccaaaaa aagcacttcc ttgatgcacc 360
caggtggagt tcaaggtaca tttgagatgt acataatgac catttttaat cct 413

<210> 31565

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C11

<400> 31565

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gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180
gaggaagcgc ccgtggtgga gaccccgccg ccggccgtcg tgcccaggga gtctgcccc 240

gccgaggccg aggccgagggc cgaggctgct gctcctgctg atccccgagga gcttccccgcg 300
 gccgagcagc aggcagccgc cgaggcgtgg ggggaaagggc cgcggtcctt gctgggtgccg 360
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<210> 31566

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-C12

<400> 31566

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 ttaacagatg ggaagctggc caagtttttg cacgtaagtt gatgctcagt ctcttagctg 180
 atttccagca acagaaaaca ctggttctaa atccgaaatt tgttgatggg attagatcaa 240
 ttctgcgcaa cacaagcttg gataaggaat tcattgcgaa agcaataact ttgcttggtc 300
 aaggggagat tatggatatg atggaagttt tgggnncccc agatcctgat gcagttcatg 360
 ctgtccgtaa ctttattaag aaggagcttg ccgtgcaact taaagatgat cttcttgctg 420
 ctgtgaaaa 429

<210> 31567

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C3

<400> 31567

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 ccggacttcc taacgtcgcc gtctgccggc acgtcccggc tcgggaaatc ttaacccgat 180
 tccctttcgg gtgacgcgcg tgatcgcgct atctgccggg tttcccaccg cccttaagat 240
 cggcttacct atgtgcaagt gccgttcaca tgtgaacctt ttgcttttcg gccttc 296

<210> 31568
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-C5

 <400> 31568

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 tatgggtctga aattacaggt cttagtgccg ggtttgtctg accgtgaggc ggaaaatata 120
 actctctacg aggccctcagc cgctcgtctac ggacttccta acgtcgacgt ctgccgccac 180
 gtcccgggttc gggaaatctt aacccgagct ccctttccgg tgacacgcgt gatcacgcta 240
 tctgcctaga ttcccccgtc ccttaagatc ggctgacca tgtgcaa 287

<210> 31569
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-D1

 <400> 31569

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 gaagacgacg actgtcttcg tggccggctc gacggggcgc accggcaagc tcgttggtgga 180
 gaagctgctg gctaagggat tcggcgtcgt cgccggtacg acggacgtga gcagggccccg 240
 cggcagcctg gcccaggacc ccaaccttca gctcgtcagg ggttacgtta cggagggagt 300
 cgacaagctg gtggaagccg tgcgc 325

<210> 31570
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-D10

 <400> 31570

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 tctattagac gaaggccggg ccatccaagc caacgtactc actaacagaa cagcatagcc 120

actacagtat gccgatgatt accaacacct taagcaccag cctacaaccc cg 172

<210> 31571
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3068-060-Q1-K1-A4

<400> 31571

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ttgcgttgca atgctttgtg ggtgtttgat tcctgcagta aatcggatgt atgactctgt 180
tgatgctgga gaaggctgctg catacgggtcc atctcatcgt gggagggtgc tggctgttga 240
ggggcctcat gataatgttt cagatgggtgt cgatccaaag ccgccacagc gtgccagtga 300
gacgcttnca gcaactgttg atctaccaa gaatgggaag catgtcaaga ttaatgggaa 360
tcttgttatt aagtcgattg ttgctagtga gatagcttca ttgcaaattg ctggcaatga 420

<210> 31572
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D11

<400> 31572

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ttatttatcc ttctttccat tttttctat tgttctttcc tttttcaatt taattctttc 180
atttttttta attttttcc ctttttaata cttttgcttt acttattttt ttctcttttc 240
tgtttattcc cttttggcct cttttctttt tttcttacat gcctttattt ttctcttttc 300
ccatttttt 309

<210> 31573
<211> 237
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3068-059-Q1-K1-G8
 <400> 31573
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 gagagccatg acagagctgc tcgacacggc cgtgaccagc ctactacacc tgccggaggt 120
 gctggaccgg ctgccgacg catacggcga cggcggtcgc gccggccacc acgcggcgca 180
 cggtcacggg cacggacgcg ttcacgggct cggcggcagc tcgggatcgc cgggtgga 237

<210> 31574
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G9
 <400> 31574
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 gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctcccttcac aacgccttca 180
 gcacctactg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cataggtccc 240
 gcggcattag cttcgtcacc ttctccactg aggatgctat gctgaacgcc atcgagggca 300
 ttaactgcta ggagctggac tgtctcatca ttaccgtcaa ctatgcccaa tcccgtgct 360
 gtcgt 365

<210> 31575
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 tcgtcgcgtt ccccggaagt ggtgcggcgt agcctgccgc aggagcgcgc ggtcctcctg 120
 gagcgggagc cctcgtgcc gccgtcgcag gccgtggacg gggcgacga cgacgacgac 180

!
 gacctggacg ccacgtggaa cgccatcatg cagaagacgc gcccggcggc tccggcttcc 240
 acccctccag ctccagctcc agctcccgt cccgccgcgc accatcagca acggccgctcg 300
 ccgagggccc gggacccgtc ggtcggcgcc gaggagatga accggcggtt cgacgacttc 360
 atcaagaaga accgcaactc cttcggccgg caataggcga cctccgttac gatccgacca 420
 ctttcccgnc gtacgatgcg 440

<210> 31576
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H11

<400> 31576
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 ttccaacttc atacctatgt ccacgtgtca cctaattcca attccactgc cctaagctat 180
 tacaacttac atactggaaa aaccttccct ttcccctaact taatcacttt gcacctaatc 240
 accattcctc aatctgatct tcattgccaa aaaccccaac ccaatcccc 290

<210> 31577
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H2

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 tccgccggcg ccaagattaa tgacgccgat gtagccaaac agatccagca gatggtgcgg 180
 ctcatccgcc atgaggccga caagaaggcc aacgagaact ccgtcttcgg ctacgaggaa 240
 tacaacattg agaagctgca gcttggtgaa gctgagaaaa cgacgattag accagactat 300
 gaacgcagag agaagcacgt tgaaatacgg aagaaaaatg agcactctat gcagatgaat 360
 gcttctcgca taaaaagtct tcaagctcac gatgat 396

<210> 31578
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-H3

 <400> 31578

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gatcggccaa caaggcaaga ggcgcttcaa tacacatgga agatgagcga gtacttctga  180
tacaaagagt gttcggtagt tattatcaaa ataaataagc cgagtaaaac tccatatagg  240
atccaacagt taccatTTTT cattaatcac agtttaattc tttttctgta ccgacagttt  300
gtacgcgagg aatgggtcaa ttcataacc atggtgagca aatgtaagtt tactccacac  360
tagatgtgta tagcttggtt ggtgctactg ctatcgatgt aatagcgggc cacgtattta  420
cttcacatgt tctgtggatc aatatactat gactgatgtc                               460
  
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<210> 31579
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-H4

 <400> 31579

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ttctgagatg agtcccatg ttcataatat ttgcgctgtg ctaaagagg tataatcaat  180
aagtgcctat gctccaattc ttttatggtg accatctaaa atagaaaaca gtatgacaat  240
tgctatgtca tcaaacaatga tcatcatggc aaatcttata tccaagctg tttatatgct  300
caacaggccg cacttgaaga aatctatatc agtttgagga aaactccagc tga                               353
  
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<210> 31580
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H5

<400> 31580

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gttgcatggc ttgcaaggga ggggaagctg tctgtgatcg gaccactatc catctaataca 180
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acaaggggag gagtttctgc atgctatcct agtttgcctc ggacagaggg gagtgtgcat 300
tgagattaag ctttgcctcg gacagaggga ggccaaagta agtttggggg aagccttcca 360
acttggcacc gcgttgacag atcgaggtga attaaccggc tcgatgttgc gggtaacat 420
gaatgggaac aagggtgctc tcacgtaat tgat 454

<210> 31581

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H7

<400> 31581

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gtccgcgccg accgactcca ctttttcgtc ggccgcgtcag cgtcgcagct cactgagcg 120
tgcgatcac cggcgggagg caagggaag ctgtgggtgc gatagcggtc gctgacgcac 180
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tgttccacga catcacgacg ttgctgctcg atcccaacgc gtttcattac accatcgacc 300
tctttgtcga gcggtacaag gaccaatgga tcaccgtggc tgctggcggt gaagctagac 360
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<210> 31582

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H8

<400> 31582

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atggacaagt aatcaccatt ggtgcagaga gattcaggtg ccctgaggtc ctcttacagc 240
cgtcgatgat tggatatgga gctgctggaa tccatgagac aacatacaat tcaatcatga 300
agtgtgacgt ggatatcaag aacgacctct atggtaacat tgcgctcagt ggtggttcga 360
ctatgttccc gggatatcgt gatcgtatga gcaaggagat cactgtcctt gcaccaagca 420
gcatgaagat 430

<210> 31583
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H9

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acgactaacg cattcccatg tactacagcc ccattattca tgtccagctg ttcattccact 180
tctctgtata atagcccaac 200

<210> 31584
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-A1

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ccagctctcc tgggcgcccg taaccctgc tagcctcgcc agggtcggac cagctctccg 180
agtcgact 188

<210> 31585
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3068-060-Q1-K1-A11

<400> 31585

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cgggcaa 427

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<210> 31586
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 31586

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gtggatgggc gactgctccg gatggaccg tttnttttt gcctggggat actgccgggt 360
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taagt 425

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<210> 31587
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-A2

 <400> 31587

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 agtgagctgt gtgtgtgtgt agtatataca atattcgtat aaactgctgg tctcaatcga 180
 gtcgtcgccc aatcggttga atcggggagc agaggcatcg gccccacgcc caatcatccg 240
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 acag 304

<210> 31588
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-060-Q1-K1-A3

 <400> 31588

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<210> 31589
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-G7

<400> 31589

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atcgcaaatac gaccacagta ttagcgcaac atcctgcaat acagtacaat acatcacatc 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D8

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gcggccaggg ctcggtgccc tccgcgggct gctgcagcgg cgtcaggagc ctcaacaacg 300

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<210> 31591

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E11

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tatctaacaa actaaaatga atacaatcta aaatccctta accaccatcc aacttaacgc 180

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<210> 31592
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E12

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 attgattttt tttggaaagg gagtgtgtgc gagttgtcta tttcaagaat agattggatc 360
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<210> 31593
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E4

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<210> 31594
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-E7

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<210> 31595
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3068-059-Q1-K1-E9

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 tcctcggcgc cgtggtgatc gcgtcgctcc tcctcgcggc tgagagccgc cacattgccc 180
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<210> 31596
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 agatcactgg aagcaacatt tttgcagatg ggaaagaacc aatccgcgag cgtgtggggc 360
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<210> 31597

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F4

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<210> 31598

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F6

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 tggacacgtc acctccgccg actcgccgaa tccgccacgc tactcgcccg ttcccgcccg 240
 aacctgctcg gcctccccct gcccgatcg cgcgcctcg acctagattt actatccatc 300